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**SUMMARY OF REMEDIAL ALTERNATIVES SELECTION FOR THE CONTAMINATED SOILS
AT THE SOL LYNN/INDUSTRIAL TRANSFORMER SITE, OPERABLE UNIT I
HOUSTON, TEXAS**

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I. SITE LOCATION AND DESCRIPTION

THE SOL LYNN SUPERFUND SITE (ALSO KNOWN AS INDUSTRIAL TRANSFORMERS (IT)) IS LOCATED IN HOUSTON, TEXAS. AS SHOWN IN FIGURE 1, THE SITE IS LOCATED JUST SOUTH OF I-610 AND WEST OF HIGHWAY 288. THE SOL LYNN SITE ENCOMPASSES APPROXIMATELY THREE QUARTERS OF AN ACRE.

SURFACE DRAINAGE AROUND THE SITE INCLUDES SHALLOW DITCHES THAT BORDER THE SITE ALONG KNIGHT AND MANSARD STREETS. THESE TWO DITCHES CARRY SURFACE RUNOFF BY SLIGHTLY DIFFERENT ROUTES TO BRAES BAYOU WHICH EMPTIES INTO BUFFALO BAYOU THEN INTO THE SAN JACINTO RIVER BASIN, WHICH ULTIMATELY FLOWS INTO GALVESTON BAY. THE SITE IS OUTSIDE THE 100-YEAR FLOOD PLAIN.

THE AREA AROUND THE SITE IS A MIX OF RESIDENTIAL, COMMERCIAL AND LIGHT INDUSTRIAL FACILITIES. THE LIGHT INDUSTRIAL, COMMERCIAL BUSINESS AREA IS LOCATED DIRECTLY TO THE EAST AND SOUTH OF THE SITE, ASTROWORLD AND ASTRODOME ARE APPROXIMATELY 4,000 FEET TO THE NORTH OF THE SITE, AND FINALLY A MIX OF PRIVATE, SINGLE AND MULTI-FAMILY DWELLINGS ARE APPROXIMATELY 3,000 FEET TO THE WEST. THE RESIDENTIAL POPULATION IS ABOUT 2,000 AND A MAXIMUM DAILY TRAFFIC OF 100,000 PERSONS MAY MOVE WITHIN A ONE-MILE RADIUS DUE TO RECREATIONAL ACTIVITIES ASSOCIATED WITH THE ASTRODOME AND ASTROWORLD.

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SITE HISTORY

THE SOL LYNN SITE IS THE LOCATION OF A FORMER ELECTRICAL TRANSFORMER SALVAGE AND RECYCLER COMPANY WHICH OPERATED BETWEEN 1971 AND 1978. A CHEMICAL RECYCLING AND SUPPLY COMPANY SUBSEQUENTLY OPERATED AT THE SAME LOCATION FROM 1979 THROUGH 1980.

THE FIRST DOCUMENTED INVESTIGATION OF THIS SITE TOOK PLACE DURING THE FALL OF 1971 WHEN THE CITY OF HOUSTON WATER POLLUTION CONTROL DIVISION NOTED THAT WORKERS AT THE INDUSTRIAL TRANSFORMER COMPANY POURED OIL OUT OF ELECTRICAL TRANSFORMERS ONTO THE GROUND AS THEY WERE BEING DISMANTLED. IN 1981, STRONG ODORS ORIGINATING FROM THE SITE WERE BROUGHT TO THE ATTENTION OF THE TEXAS DEPARTMENT OF WATER RESOURCES, THE PREDECESSOR AGENCY OF THE TEXAS WATER COMMISSION (TWC). UPON INSPECTION IT WAS REVEALED THAT APPROXIMATELY 75 DRUMS WERE SCATTERED ABOUT THE PROPERTY. MOST OF THE DRUMS, LABELED "TRICHLOROETHYLENE", WERE EMPTY AND HAD PUNCTURE HOLES.

IN OCTOBER 1984 THE SITE WAS PROPOSED FOR INCLUSION ON THE NATIONAL PRIORITIES LIST. IN SEPTEMBER 1985, THE TWC ENTERED INTO A COOPERATIVE AGREEMENT WITH THE EPA TO CONDUCT THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) AT THE SITE. UTILIZING FUNDS FROM THIS COOPERATIVE AGREEMENT, THE TWC CONTRACTED WITH RADIAN CORPORATION ON JUNE 30, 1986, FOR A TECHNICAL ASSESSMENT OF THE SITE. FIELD WORK BEGAN JANUARY 14, 1987.

IN AN EFFORT TO ADDRESS THE OBVIOUS CONTAMINATION IN AN EXPEDITIOUS MANNER, THE SITE WAS BROKEN DOWN INTO PARTS CALLED OPERABLE UNITS. THERE IS A SOIL OPERABLE UNIT AND A GROUNDWATER OPERABLE UNIT. THIS SUMMARY ONLY EXAMINES POTENTIAL REMEDIAL ALTERNATIVES FOR THE SOIL OPERABLE UNIT. THE GROUNDWATER OPERABLE UNIT WILL BE ADDRESSED IN THE SECOND, OR "PHASE II" FEASIBILITY STUDY.

GEOLOGY

SURFACE SOILS AT THE SITE AND IN THE VICINITY ARE OF THE LAKE CHARLES SERIES. THESE SOILS ARE CHARACTERIZED BY SOMEWHAT POOR DRAINAGE AND HIGH AVAILABLE WATER CAPACITY. WHEN THE SOIL IS DRY, DEEP, WIDE CRACKS FORM ON THE SURFACE WHERE WATER CAN ENTER RAPIDLY. WHEN THE SOIL IS WET THE CRACKS ARE SEALED AND WATER INFILTRATES SLOWLY.

BELOW THE SURFACE SOIL IS BEAUMONT CLAY, WHICH IS OF PLEISTOCENE AGE. THE LITHOLOGY OF THE BEAUMONT CLAY IS COMPRISED OF UNCONSOLIDATED CLAYS AND MUDS OR DEPOSITS OF CLAYEY SANDS AND SILTS. THE CLAYS AND MUDS WERE DEPOSITED AS INTERDISTRIBUTARY, ABANDONED CHANNEL FILL, OVERBANK FLUVIAL OR MUD-FILLED COASTAL LAKE OR TIDAL CREEK MUDS. THE SANDS AND SILTS REPRESENT ALLUVIUM, LEVEE AND CREVASSE SPLAYS.

THE UPPERMOST AQUIFER IS ENCOUNTERED AT A DEPTH OF 30-34 FEET BELOW GROUND SURFACE. THIS PARTICULAR AQUIFER IS A WATER-BEARING SAND THAT VARIES IN THICKNESS FROM 2 FEET TO 6 FEET, AVERAGING 4 1/2 FEET. SAND CONTENT INCREASES FROM WEST TO EAST ACROSS THE SITE, FROM 50% TO 70%. THIS AQUIFER IS NOT USED AS A DRINKING WATER SUPPLY. THE GROUNDWATER FLOWS TO THE NORTHWEST.

THE UPPERMOST WATER-BEARING SAND IS SEPARATED FROM THE NEXT LOWER, "INTERMEDIATE" WATER-BEARING SAND BY A STIFF CLAY, APPROXIMATELY 45 TO 52 FEET IN THICKNESS. THE INTERMEDIATE WATER-BEARING SAND IS UNDERLAIN BY CLAY.

THE MAJOR AQUIFERS IN THE HOUSTON AREA ARE THE CHICOT AND EVANGELINE. THESE AQUIFERS SUPPLEMENT SURFACE WATER IN SUPPLYING THE CITY WITH DRINKING WATER. IN THE VICINITY OF THE SITE THE SHALLOWEST WELL FOR THE CITY OF HOUSTON IS AT 670 FEET BELOW THE SURFACE. DURING THE GROUNDWATER INVESTIGATION OF THE SITE AN EVALUATION OF THE EXTENT OF THE CONTAMINATION AND ITS IMPACTS ON THESE WELLS WILL BE DETERMINED.

REMEDIAL INVESTIGATION RESULTS

DURING THE RI SAMPLES WERE COLLECTED FROM SOIL, STORMWATER, AND AIR TO DETERMINE THE NATURE AND EXTENT OF CONTAMINATION. BECAUSE INFORMATION COLLECTED PREVIOUSLY BY TWC INDICATES THE PRIMARY CONTAMINANTS AT THE SITE ARE POLYCHLORINATED BIPHENYLS (PCBS) AND TRICHLOROETHYLENE THE EMPHASIS FOR THE ANALYTICAL TESTING WAS PLACED ON DETERMINING VERTICAL AND AREAL EXTENT OF THESE TWO CONTAMINANTS.

IN THE SAMPLES COLLECTED FROM THE UPPER TWO FEET OF SOIL, CONCENTRATIONS OF PCBS VARIED FROM 350 PPM AT THE MIDDLE OF THE SITE, TO 118 PPM AT THE EASTERN EDGE OF THE SITE, TO NOT DETECTED IN THE WESTERN PART OF THE SITE. SAMPLES COLLECTED AT THE 2 TO 4 FOOT DEPTH INDICATED PCBS OF LESS THAN 5 PPM.

SEVEN STORMWATER SAMPLES WERE COLLECTED FROM "PONDED" AREAS ONSITE AND FROM THE OFFSITE DRAINAGE DITCH AREAS. ALL SAMPLES WERE ANALYZED FOR PCBS. ONLY ONE SAMPLE OF "PONDED" WATER AT THE SITE NEAR A CONTAMINATED AREA SHOWED PCBS (0.0011 PPM). TWO OF THE SAMPLES WERE ANALYZED FOR TCE. ONLY ONE SAMPLE OF "PONDED" WATER SHOWS THE PRESENCE OF TCE AT .0026 PPM.

SEDIMENT SAMPLES WERE COLLECTED FROM THE SAME LOCATION AS THE STORMWATER SAMPLES. THE RESULTS OF THE SEDIMENT SAMPLING SHOWED THAT ONLY ONE SAMPLE COLLECTED IN A DRAINAGE DITCH SOUTH OF THE SITE EXCEEDED THE CLEANUP CRITERION. AIR SAMPLES WERE ALSO TAKEN. THE ANALYSIS OF THE AIR SAMPLES DID NOT DETECT TCE OR PCBS.

IN CONCLUSION, ANALYTICAL RESULTS OF ALL SAMPLES COLLECTED AT THE SITE INDICATE THAT THE PCB CONTAMINATION IS CONFINED TO THE TOP TWO FEET OF SOIL AND IS WITHIN THE AREA SHOWN ON FIGURE 2. THIS CONSTITUTES A VOLUME OF APPROXIMATELY 2400 CUBIC YARDS OF CONTAMINATED PCB SOILS THAT EXCEED THE CLEANUP CRITERION. THE TCE WHICH IS A HIGHLY MOBILE AND VOLATILE COMPOUND, HAS MIGRATED MUCH DEEPER AND FARTHER AWAY FROM THE SITE. VERY LITTLE TCE REMAINS NEAR THE SURFACE BECAUSE IT HAS EITHER VOLATILIZED OR MOVED WITH THE GROUNDWATER INTO THE DEEPER AQUIFERS. THE TCE THAT DOES REMAIN AT THE SURFACE WILL BE REMEDIATED ALONG WITH THE PCB CONTAMINATED SOILS. ANY TCE THAT HAS MIGRATED INTO THE DEEPER GROUNDWATER IS BEYOND THE SCOPE OF THIS CLEANUP AND WILL BE ADDRESSED AS PART OF THE GROUNDWATER OPERABLE UNIT.

POTENTIAL IMPACTS OF THE SITE ON HUMAN HEALTH AND THE ENVIRONMENT AS PART OF THE REMEDIAL INVESTIGATION, AN ASSESSMENT OF THE HEALTH THREAT CREATED BY THE CURRENT SITE CONDITIONS WAS CONDUCTED. FACTORS INCLUDED IN THIS RISK ASSESSMENT WERE THE IDENTIFIED TARGET RECEPTORS, THE MAXIMUM CONCENTRATIONS OF PCBS ONSITE, AND THE DEGREE OF EXPOSURE TO THE HAZARDS FROM THE SITE. TARGET RECEPTORS IDENTIFIED IN THE ASSESSMENT INCLUDED THE WORKERS, TRESPASSERS, AND CLIENTELE OF THE BUSINESS WHICH CURRENTLY OPERATE AT THE SITE.

THE RESULTS OF THE RISK ASSESSMENT INDICATE THAT THE HIGHEST CONCENTRATIONS OF PCBS FOUND ONSITE PRESENT A 10⁻³ (ONE THOUSAND IN ONE MILLION) LIFETIME CANCER RISK. THE MAJOR PATHWAYS OF EXPOSURE ARE DERMAL AND INGESTION. THIS LEVEL REPRESENTS THE THREAT THAT WOULD BE POSED BY THE SITE CONDITIONS IF NO REMEDY WAS IMPLEMENTED.

THE EXTENT OF REMEDIAL ACTION NECESSARY IS BASED ON A COMPARISON OF THE CONTAMINANT CONCENTRATIONS FOUND AT THE SITE TO EITHER 1) EXISTING HEALTH-BASED STANDARDS OR CRITERIA; OR 2) CONCENTRATIONS THAT WOULD REPRESENT A 10⁻⁴ TO 10⁻⁷ LIFETIME CANCER RISK. A HEALTH-BASED

CRITERION FOR PCB CONTAMINATED SOIL IS AVAILABLE (TOXIC SUBSTANCES CONTROL ACT SPILL CLEANUP POLICY, FED. REGISTER, APRIL 2, 1987). THIS CRITERION, 25 PPM, WHICH ASSUMES A WORKER IS EXPOSED TO THE SITE OF EIGHT HOURS PER DAY FOR A 40 YEAR PERIOD WAS CHOSEN AS THE CLEANUP STANDARD.

#ENF

II. ENFORCEMENT

THE GOAL OF THE EPA IS TO HAVE THOSE PARTIES RESPONSIBLE FOR CONTAMINATION OF THE SITE PERFORM THE CLEANUP. THERE ARE THREE IDENTIFIED POTENTIALLY RESPONSIBLE PARTIES (PRPS) FOR THE IT SITE. THESE PARTIES WILL BE GIVEN THE OPPORTUNITY TO CONDUCT OR PARTICIPATE IN THE REMEDIAL ACTION SELECTED FOR THE SITE. IF THEY REFUSE, EPA WILL PROCEED WITH FUNDING THE REMEDIAL DESIGN AND IMPLEMENTATION.

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III. COMMUNITY RELATIONS HISTORY

THE INDUSTRIAL TRANSFORMER SUPERFUND SITE WAS PROPOSED FOR THE NATIONAL PRIORITIES LIST (NPL) IN OCTOBER 1984. IN FEBRUARY 1985 THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE TEXAS WATER COMMISSION (TWC) HELD A PUBLIC MEETING IN HOUSTON FOR RESIDENTS NEAR THE SITE TO DISCUSS SITE CONDITIONS AND THE SUPERFUND PROGRAM/PROCESS. APPROXIMATELY 15 PEOPLE ATTENDED THE MEETING. ON OCTOBER 3, 1985, EPA ISSUED A NEWS RELEASE ANNOUNCING THAT FUNDS TO STUDY THE SITE HAD BEEN AWARDED TO THE TWC.

INITIATION OF STUDIES ON INDUSTRIAL TRANSFORMER WAS ANNOUNCED BY TWC AT A PUBLIC MEETING IN HOUSTON ON SEPTEMBER 24, 1986. EVALUATION OF THE SITE WAS DIVIDED INTO TWO SEPARATE STUDIES: 1) SURFACE SOIL CONTAMINATION; 2) GROUNDWATER CONTAMINATION. THE STUDY ADDRESSING SURFACE SOIL CONTAMINATION WAS COMPLETED IN DECEMBER 1987. ON JANUARY 21, 1988, EPA ANNOUNCED TO THE PUBLIC VIA A NEWS RELEASE THAT A PUBLIC MEETING WOULD BE HELD ON FEBRUARY 2, 1988, TO DISCUSS THE PROPOSED REMEDY FOR SURFACE CONTAMINATION AT THE SITE. THE GROUNDWATER STUDY IS EXPECTED TO BE COMPLETED IN 1989.

AN EPA PREPARED FACT SHEET WHICH DESCRIBED ALTERNATIVE REMEDIAL ACTIONS FOR THE SOIL CONTAMINATION ALONG WITH THE EPA PREFERRED ALTERNATIVE WAS SENT TO THE INTERESTED AND AFFECTED PUBLIC SHORTLY AFTER THE PUBLIC MEETING WAS ANNOUNCED. EPA AND TWC CONDUCTED THE 7:00 PM PUBLIC MEETING AT THE ASTRO VILLAGE HOTEL ON FEBRUARY 2, 1988. APPROXIMATELY 35 PEOPLE ATTENDED THE PUBLIC MEETING.

FURTHER DETAILS ON COMMUNITY RELATIONS ARE CONTAINED IN ATTACHMENT B.

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IV. ALTERNATIVES EVALUATION

THE REQUIREMENTS, PROCEDURES AND PREFERENCES THAT THE EPA FOLLOWS IN SELECTION OF A SUPERFUND REMEDY ARE OUTLINED IN THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT, (CERCLA) AS AMENDED BY THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA), THE NATIONAL CONTINGENCY PLAN (40 CFR PART 300) AND VARIOUS APPLICABLE GUIDELINES. THE FOLLOWING DESCRIBES THE EVALUATION CRITERIA USED IN SELECTION OF A REMEDY FOR THE IT SITE.

A. EVALUATION CRITERIA

1. SARA REQUIREMENTS - SECTION 121 (A) THROUGH (F) OF SARA CONTAINS THREE FACTORS WHICH EPA MUST CONSIDER IN SELECTING A REMEDY.

A. PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT.

THE ALTERNATIVE MUST PROVIDE ADEQUATE PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT.

B. COST EFFECTIVE

COST EFFECTIVENESS INCLUDES AN EVALUATION OF THE FOLLOWING CRITERION:

I. LONG-TERM EFFECTIVENESS AND PERMANENCE

ALTERNATIVES ARE ASSESSED FOR THE LONG-TERM EFFECTIVENESS AND PERMANENCE THEY AFFORD ALONG WITH THE DEGREE OF CERTAINTY THAT THE REMEDY WILL PROVE SUCCESSFUL. FACTORS CONSIDERED ARE:

- MAGNITUDE OF RESIDUAL RISKS IN TERMS OF AMOUNTS AND CONCENTRATIONS OF WASTE REMAINING FOLLOWING IMPLEMENTATION OF A REMEDIAL ACTION, CONSIDERING THE PERSISTENCE, TOXICITY, MOBILITY, AND PROPENSITY TO BIOACCUMULATE OF SUCH HAZARDOUS SUBSTANCES AND THEIR CONSTITUENTS;
- TYPE AND DEGREE OF LONG-TERM MANAGEMENT REQUIRED, INCLUDING MONITORING AND OPERATION AND MAINTENANCE;
- LONG-TERM RELIABILITY OF THE ENGINEERING AND INSTITUTIONAL CONTROLS, INCLUDING UNCERTAINTIES ASSOCIATED WITH LAND DISPOSAL OF UNTREATED WASTES AND RESIDUALS;

II. SHORT-TERM EFFECTIVENESS

THE SHORT-TERM EFFECTIVENESS OF ALTERNATIVES MUST BE ASSESSED; CONSIDERING APPROPRIATE FACTORS AMONG THE FOLLOWING:

- MAGNITUDE OF REDUCTION OF EXISTING RISKS;
- SHORT-TERM RISKS THAT MIGHT BE POSED TO THE COMMUNITY, WORKERS, OR THE ENVIRONMENT DURING IMPLEMENTATION OF AN ALTERNATIVE INCLUDING POTENTIAL THREATS TO HUMAN HEALTH AND THE ENVIRONMENT ASSOCIATED WITH EVACUATION, TRANSPORTATION, AND REDISPOSAL OR CONTAINMENT;
- TIME UNTIL FULL PROTECTION IS ACHIEVED.
- POTENTIAL NEED FOR REPLACEMENT REMEDY.
- POTENTIAL FOR EXPOSURE OF HUMAN AND THE ENVIRONMENTAL RECEPTORS TO REMAINING WASTE CONSIDERING THE POTENTIAL THREAT TO HUMAN HEALTH AND THE ENVIRONMENT ASSOCIATED WITH EXCAVATION, TRANSPORTATION, REDISPOSAL OR CONTAINMENT.

III. IMPLEMENTABILITY

THE EASE OR DIFFICULTY OF IMPLEMENTING THE ALTERNATIVES ARE ASSESSED BY CONSIDERING THE FOLLOWING TYPES OF FACTORS:

- DEGREE OF DIFFICULTY ASSOCIATED WITH CONSTRUCTING THE TECHNOLOGY;
- EXPECTED OPERATIONAL RELIABILITY OF THE TECHNOLOGY;
- NEED TO COORDINATE WITH AND OBTAIN NECESSARY APPROVALS AND PERMITS (E.G., NPDES, DREDGE AND FILL PERMITS FOR OFF-SITE ACTIONS) FROM OTHER OFFICES AND AGENCIES;
- AVAILABILITY OF NECESSARY EQUIPMENT AND SPECIALISTS;
- AVAILABLE CAPACITY AND LOCATION OF NEEDED TREATMENT, STORAGE, AND DISPOSAL SERVICES.
- COMPATIBILITY WITH EXISTING FUTURE LAND USE.
- NEED TO RESPOND TO OTHER SITES.

IV. COST

THE TYPES OF COSTS THAT SHOULD BE ASSESSED INCLUDE THE FOLLOWING:

- CAPITAL COST;
- OPERATIONAL AND MAINTENANCE COSTS;
- COST OF FIVE-YEAR REVIEWS, WHERE REQUIRED;

- NET PRESENT VALUE OF CAPITAL AND O&M COSTS;
- POTENTIAL FUTURE REMEDIAL ACTION COSTS.

C. COMPLIANCE WITH APPLICABLE OR RELEVANT AND APPROPRIATE FEDERAL AND STATE REGULATIONS IN DETERMINING APPROPRIATE REMEDIAL ACTIONS AT SUPERFUND SITES, CONSIDERATION MUST BE GIVEN TO THE REQUIREMENTS OF OTHER FEDERAL AND STATE LAWS. ALTERNATIVES SHOULD BE ASSESSED AS TO WHETHER THEY ATTAIN LEGALLY APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENT OF OTHER FEDERAL AND STATE PUBLIC HEALTH AND ENVIRONMENTAL LAWS. REQUIREMENT UNDER FEDERAL AND STATE LAWS THAT SPECIFICALLY ADDRESS THE CIRCUMSTANCES AT A SUPERFUND SITE ARE CONSIDERED APPLICABLE. RELEVANT AND APPROPRIATE REQUIREMENTS, WHILE NOT APPLICABLE TO A SUPERFUND SITE, ADDRESS SITUATIONS WHICH ARE SUFFICIENTLY SIMILAR TO THOSE EXISTING AT THE SITE.

2. SARA PREFERENCES. THE EPA IS ALSO DIRECTED BY SARA TO GIVE PREFERENCE TO REMEDIAL ACTIONS WHICH REDUCE THE TOXICITY, MOBILITY OR VOLUME OF THE WASTE. RELEVANT FACTORS ARE:

- THE TREATMENT PROCESSES THE REMEDIES EMPLOY AND MATERIALS THEY WILL TREAT;
- THE AMOUNT OF HAZARDOUS MATERIALS THAT WILL BE DESTROYED OR TREATED;
- THE DEGREE OF EXPECTED REDUCTION IN TOXICITY, MOBILITY, OR VOLUME;
- THE DEGREE TO WHICH THE TREATMENT IS IRREVERSIBLE;
- THE RESIDUALS THAT WILL REMAIN FOLLOWING TREATMENT, CONSIDERING THE PERSISTENCE, TOXICITY, MOBILITY, AND PROPENSITY FOR BIOACCUMULATION OF SUCH HAZARDOUS SUBSTANCES AND THEIR CONSTITUENTS.

3. EPA GUIDELINES - IT IS EPA POLICY TO CONSIDER OTHER FACTORS IN SELECTION OF A REMEDY. THESE ARE:

A. COMMUNITY ACCEPTANCE

THIS ASSESSMENT SHOULD LOOK AT:

- COMPONENTS OF THE ALTERNATIVES WHICH THE COMMUNITY SUPPORTS;
- FEATURES OF THE ALTERNATIVES ABOUT WHICH THE COMMUNITY HAS RESERVATIONS;
- ELEMENTS OF THE ALTERNATIVES WHICH THE COMMUNITY STRONGLY OPPOSES.

B. STATE ACCEPTANCE

- EVALUATION FACTORS INCLUDE ASSESSMENTS OF:
- COMPONENTS OF THE ALTERNATIVES THE STATE SUPPORTS;
- FEATURES OF THE ALTERNATIVES ABOUT WHICH THE STATE HAS RESERVATIONS;
- ELEMENTS OF THE ALTERNATIVES UNDER CONSIDERATION THAT THE STATE STRONGLY OPPOSES.

B. DESCRIPTION OF ALTERNATIVES

IN CONFORMANCE WITH THE NCP, AN INITIAL SET OF REMEDIAL APPROACHES WERE SCREENED TO DETERMINE WHETHER THEY MIGHT BE APPROPRIATE FOR THIS SITE. FROM THESE POSSIBLE REMEDIES, EIGHT ALTERNATIVES WERE CHOSEN FOR MORE DETAILED EVALUATION AND COMPARISON WITH THE REMEDY SELECTION CRITERIA OUTLINED ABOVE. EACH IS SUMMARIZED BELOW:

ALTERNATIVE 1, NO ACTION - FOR THIS REMEDY, NO NEW OR ADDITIONAL REMEDIAL ACTIONS WILL BE CONDUCTED. THERE ARE SOME COSTS ASSOCIATED WITH CLOSING OUT THE SITE, WHICH INCLUDE PLUGGING MONITORING WELLS, DISMANTLING REMEDIAL INVESTIGATION EQUIPMENT AND THE DECONTAMINATION PAD.

IN ADDITION, LONG TERM MONITORING ACTIVITIES WOULD BE REQUIRED. GROUNDWATER, SOIL SEDIMENT, AND

AIR SAMPLES WILL BE TAKEN AT AN APPROXIMATE COST OF \$10,000 PER YEAR. THE PRESENT WORTH OF THIS ALTERNATIVE COST IS ESTIMATED TO BE \$450,200 FOR 30 YEARS.

ALTERNATIVE 2, OFF SITE LANDFILL - IN THE OFF SITE LANDFILL ALTERNATIVE, PCBS ABOVE 25 PPM IN THE SOIL WOULD BE EXCAVATED, TRANSPORTED, AND DISPOSED AT AN OFF SITE PCB LANDFILL. APPROXIMATELY 2500 CUBIC YARDS OF SOIL WILL REQUIRE EXCAVATION AND TRANSPORT SEVERAL HUNDRED MILES TO AN APPROPRIATE FACILITY, NECESSITATING OVER 168 DUMP TRAILER LOADS. THE OFF SITE LANDFILL WILL BE SPECIFICALLY PERMITTED FOR THE DISPOSAL OF PCBS AND IN COMPLIANCE WITH THE RESOURCE CONSERVATION AND RECOVERY ACT AND TSCA. THE ESTIMATED COST OF THIS ALTERNATIVE IS 2.3 MILLION.

ALTERNATIVE 3, STABILIZATION AND OFF SITE LANDFILL - THIS ALTERNATIVE IS THE SAME AS ALTERNATIVE 2, EXCEPT PRIOR TO DISPOSAL THE EXCAVATED SOILS WILL BE STABILIZED WITH A CEMENT-TYPE MIXTURE TO ENHANCE BINDING OF THE TOXIC SUBSTANCES TO THE SOIL. THE ESTIMATED COST OF THIS ALTERNATIVE IS \$3.5 MILLION.

ALTERNATIVE 4, IN-SITU GLASSIFICATION - THIS IS AN INNOVATIVE TECHNOLOGY WHICH USES AN ELECTRIC CURRENT PASSED BETWEEN ELECTRODES IN THE GROUND TO CONVERT THE SOILS INTO A STABLE GLASS MATERIAL RESEMBLING NATURAL OBSIDIAN.

IMPLEMENTATION OF THIS PROCESS WOULD REQUIRE POWER IN THE FORM OF LOCALLY SUPPLIED ELECTRICITY. A SQUARE ARRAY OF FOUR ELECTRODES IS PLACED IN THE SOIL TO THE DESIRED TREATMENT DEPTH, AT LEAST TWO FEET IN THIS CASE. A MIXTURE OF GRAPHITE AND GLASS FRIT IS SPREAD BETWEEN THE ELECTRODES TO ACT AS A STARTER PATH FOR THE ELECTRIC CURRENT ESTABLISHED BY THE POTENTIAL APPLIED TO THE ELECTRODES. THE CURRENT HEATS THE STARTER PATH AND ADJACENT SOILS TO 3600 DEGREES F, WELL ABOVE NORMAL MELTING TEMPERATURES OF MOST SOILS. THE MOLTEN SOILS INCORPORATE THE INORGANIC CONSTITUENTS AND PYROLYSIS THE ORGANIC ONES. THE PYROLYSIS BYPRODUCTS MIGRATE TO THE SURFACE AND COMBUST IN THE PRESENCE OF OXYGEN. A HOOD PLACED OVER THE TREATMENT AREA COLLECTS THE GASES FOR TREATMENT. FOLLOWING GLASSIFICATION MORE TOPSOIL WILL BE ADDED AND REVEGETATED. THIS ALTERNATIVE MAY REQUIRE A PILOT SCALE TEST TO DETERMINE THE MOST EFFECTIVE ELECTRODE SPACING AND DEPTH OF SOIL TREATMENT. THE ESTIMATED COST FOR THIS ALTERNATIVE IS \$1.5 MILLION.

ALTERNATIVE 5, ON SITE INCINERATION - THIS ALTERNATIVE CONSISTS OF EXCAVATING CONTAMINATED SOILS AND INCINERATING THEM ONSITE USING THE MOST SUITABLE OF SEVERAL TYPES OF MOBILE OR TRANSPORTABLE THERMAL DESTRUCTION UNITS.

AFTER EXCAVATION THE SOILS WILL BE STORED TEMPORARILY IN WASTE PILES THEN FED INTO AN ON SITE INCINERATOR. THE INCINERATOR EXHAUST GASES WILL BE SCRUBBED PRIOR TO VENTING TO THE ATMOSPHERE. IF THE ASH IS HAZARDOUS IT WILL BE DISPOSED OF IN A RCRA APPROVED OFF SITE LANDFILL (AS DESCRIBED IN ALT. 2). IF NOT IT WOULD BE DISPOSED ON SITE. FOLLOWING EXCAVATION THE TOPSOIL WILL BE REPLACED AND REVEGETATED. THE ESTIMATED COST FOR THIS ALTERNATIVE IS \$2.5 MILLION.

ALTERNATIVE 6, OFF SITE INCINERATION

THIS REMEDY WOULD REQUIRE THE EXCAVATION AND TRANSPORTATION OF TWO FEET OF SOIL IN BULK TO AN OFF SITE COMMERCIAL INCINERATION FACILITY THAT COMPLIES WITH RCRA.

TRANSPORT AND REGRADING WILL BE AS DESCRIBED FOR ALTERNATIVE 2. THE SOILS WILL BE TRANSPORTED IN BULK TO AN OFF SITE COMMERCIAL INCINERATION FACILITY IN COMPLIANCE WITH SECTION 121 (D) OF CERCLA AS AMENDED BY SARA. THE COST OF THIS ALTERNATIVE IS ESTIMATED AT \$6.1 MILLION.

ALTERNATIVE 7, CHEMICAL TREATMENT - THIS IS A NEW TECHNOLOGY WHICH RESULTS IN THE DECHLORINIZATION OF PCBS BY MIXING SOILS WITH ALKALI METAL POLYETHYLENE GLYCOLATE COMPLEX (APEG) IN A BATCH REACTOR. THIS TREATMENT CHANGES THE CHEMICAL COMPOSITION OF THE PCBS BY CHEMICALLY REACTING WITH THE CHLORINE ATOMS UNTIL THEY ARE COMPLETELY DECHLORINIZED.

THIS PROCESS YIELDS POLYGLYCOL BYPRODUCTS THAT ARE NON-TOXIC. THIS TECHNIQUE WOULD BE PROVEN EFFECTIVE BY IMPLEMENTING TREATABILITY TESTING. THIS ALTERNATIVE IS ESTIMATED TO COST \$2.2 MILLION.

ALTERNATIVE 8, BIOLOGICAL TREATMENT - THIS IS A NEW TECHNOLOGY IN THE HAZARDOUS WASTE FIELD. WASTES ARE USED AS A FOOD SOURCE FOR THE MICROORGANISMS IN A SLURRY MEDIUM WITH MECHANICAL OR DIFFUSED AIR SUPPLYING OXYGEN TO THE MICROBES. FOR THIS ALTERNATIVE THE SOIL WILL BE EXCAVATED

AND TREATED IN A BATCH SYSTEM ON SITE. THE ESTIMATED COST IS \$3.3 MILLION.

EVALUATION OF ALTERNATIVES

AN EVALUATION OF THE ALTERNATIVES IS SHOWN ON TABLE 1. THE FOLLOWING VALUES WERE ASSIGNED TO COMPARE REMEDIAL SELECTION CRITERIA:

- + ALTERNATIVE WOULD EXCEED A CRITERION IN COMPARISON TO OTHER ALTERNATIVES.
- 0 ALTERNATIVE CAN BE DESIGNED TO MEET THE SELECTION CRITERION.
- IN COMPARISON TO OTHER REMEDIES, THIS ALTERNATIVE WILL PRESENT DIFFICULTY IN ACHIEVING A SELECTION CRITERION.

1. COMPLIES WITH ARARS (MEETS OR EXCEEDS APPLICABLE, OR RELEVANT AND APPROPRIATE FEDERAL AND STATE REQUIREMENTS)

TABLE 2 DELINEATES THE FEDERAL AND STATE STATUTES WHICH ARE APPLICABLE OR RELEVANT AND APPROPRIATE (ARARS). IN ALL INSTANCES WHERE THE REGULATION IS CONSIDERED APPLICABLE OR RELEVANT AND APPROPRIATE, THOSE REQUIREMENTS WILL BE MET.

2. REDUCES TOXICITY, MOBILITY, AND VOLUME

A. NO ACTION WAS RATED "-" FOR REDUCING MOBILITY AND TOXICITY BECAUSE IT DOES NOTHING TO REDUCE THESE PARAMETERS. THE VOLUME WILL NOT CHANGE SO IT WAS RATED A "0".

B. OFF SITE LANDFILL WAS RATED A "0" FOR MOBILITY BECAUSE THE LANDFILL ENCAPSULATES THE WASTE FROM THE ENVIRONMENT AS LONG AS ALL THE CONTAINMENT FEATURES REMAIN INTACT. BECAUSE OF THE RISK OF FUTURE LEAKAGE FROM A LANDFILL, TOTAL IMMOBILIZATION CAN NOT BE ASSURED. THE TOXICITY WILL NOT CHANGE SO IT WAS RATED "-" AND THE VOLUME WILL STAY THE SAME.

C. STABILIZATION WITH OFF SITE LANDFILL WAS RATED A "+" FOR MOBILITY. STABILIZATION BEFORE LANDFILLING WILL IMMOBILIZE THE WASTE BEFORE CONTAINMENT. THE TOXICITY WILL NOT CHANGE SO IT WAS RATED "-" AND THE VOLUME WILL GREATLY INCREASE DUE TO THE FIXATIVES ADDED TO STABILIZE THE WASTE SO IT WAS RATED A "-".

D. IN-SITU GLASSIFICATION WAS RATED WITH A "+" FOR MOBILITY BECAUSE THIS METHOD CONVERTS THE SOILS INTO A STABLE MATERIAL RESEMBLING NATURAL OBSIDIAN. IT WAS RATED A "+" IN TOXICITY REDUCTION BECAUSE IT WOULD BE EXPECTED TO DESTROY PCBS IN THE SOIL WITH A GREATER THAN 99.9999% DESTRUCTION EFFICIENCY. GLASSIFICATION WILL REDUCE THE VOLUME OF TOXIC SUBSTANCES SUBSTANTIALLY, THEREFORE IT IS RATED A "+".

E. ON SITE AND OFF SITE INCINERATION WERE GIVEN A "+" FOR REDUCING TOXICITY, AND MOBILITY BECAUSE THERMAL DESTRUCTION DESTROYS ORGANICS IN THE SOIL. SOIL WILL NOT BURN, THEREFORE THE VOLUME OF SOIL WILL NOT BE SUBSTANTIALLY REDUCED, HOWEVER, SINCE THE VOLUME OF CONTAMINANTS WILL BE REDUCED THESE ARE RATED A "+" ON VOLUME REDUCTION.

F. CHEMICAL DECHLORINIZATION WAS GIVEN A "+" FOR REDUCING MOBILITY AND TOXICITY BECAUSE STUDIES SHOW THAT PCBS WILL BE ELIMINATED. AFTER TREATMENT THE VOLUME OF REMAINING MATERIAL IS RELATIVELY UNCHANGED BECAUSE THE MATERIAL TREATED IS SOIL. HOWEVER, SINCE THE VOLUME OF CONTAMINANTS WILL BE REDUCED THIS RATED A "+" ON VOLUME REDUCTION.

G. BIOLOGICAL TREATMENT WAS GIVEN A "+" FOR REDUCTION IN MOBILITY AND TOXICITY BECAUSE STUDIES SHOW THAT PCBS CAN BE BIODEGRADED. THE VOLUME OF TOXIC SUBSTANCES WILL BE REDUCED THEREFORE THIS ALTERNATIVE WAS RATED A "+" FOR THIS CRITERION.

3. SHORT TERM EFFECTIVENESS

A. NO ACTION DOES NOTHING TO REDUCE THE EXISTING RISKS. HOWEVER, BECAUSE THERE ARE NO CONSTRUCTION ACTIVITIES THAT WILL OCCUR THERE IS NO POTENTIAL FOR INCREASED EXPOSURE TO WORKERS OR THE COMMUNITY. THEREFORE, THE OVERALL RISKS TEND TO BALANCE EACH OTHER OUT FOR THIS CRITERION GIVING AN OVERALL "0" RANKING.

B. OFF SITE LANDFILL AND STABILIZATION WITH OFF SITE LANDFILL. THESE ALTERNATIVES DO INVOLVE CONSTRUCTION ACTIVITIES SO THERE IS AN INCREASED POTENTIAL FOR EXPOSURE TO THE WORKERS. THESE

RISKS INCLUDE POSSIBLE SPILLAGE DURING TRANSPORTATION AND THE INCREASED CONTACT WITH THE SOIL THE WORKERS EXPERIENCE DURING EXCAVATION. THE CONSTRUCTION ACTIVITIES ARE EXPECTED TO TAKE ONLY A COUPLE OF MONTHS. FOR THESE REASONS THE LANDFILL ALTERNATIVES RATED A "-".

C. IN-SITU GLASSIFICATION HAS THE ADVANTAGE OF NO EXCAVATION, HOWEVER GASES ARE PRODUCED AS THE SOIL IS MELTED. THE GASES PRODUCED WILL BE TREATED AND RENDERED NON-HAZARDOUS. THEREFORE IT WAS GRADED A "0" FOR SHORT-TERM EFFECTIVENESS.

D. ON SITE INCINERATION RECEIVED A "-" FOR SHORT-TERM EFFECTIVENESS. AS PREVIOUSLY STATED EXCAVATION POSES A SHORT-TERM POTENTIAL HEALTH HAZARD TO THE WORKERS. ALTHOUGH THERE WILL BE GASES PRODUCED FROM THE INCINERATION THESE GASES ARE PRIMARILY NON-HAZARDOUS AND WILL NOT IMPOSE ANY SIGNIFICANT INCREASED HEALTH RISKS TO THE COMMUNITY. AIR MONITORING WILL BE CONCURRENT WITH ANY INCINERATION. TIME REQUIREMENTS SHOULD BE APPROXIMATELY TWO MONTHS FOR THE TEST BURN TREATABILITY STUDY AND ANOTHER FOUR MONTHS FOR THE TREATMENT ITSELF.

E. OFF SITE INCINERATION RECEIVED A "-" FOR SHORT-TERM EFFECTIVENESS BECAUSE THE SOIL MUST BE EXCAVATED, AS WELL AS TRANSPORTED, INCREASING EXPOSURE TO THE WORKERS AND THE COMMUNITY. DUE TO SCHEDULING PROBLEMS WITH INCINERATORS, IMPLEMENTATION OF THIS ALTERNATIVE MAY TAKE SEVERAL YEARS.

F. CHEMICAL DECHLORINIZATION AND BIOLOGICAL TREATMENT WERE GIVEN "0" FOR SHORT TERM EFFECTIVENESS. ALTHOUGH THE WORKER WILL BE WEARING PROTECTIVE GEAR EXCAVATING THE CONTAMINANTS WILL EXPOSE THE WORKERS TO THE CONTAMINANTS MORE THAN AN INSITU PROCESS WILL.

4. LONG-TERM EFFECTIVENESS AND PERMANENCE

A. NO ACTION ALLOWS FOR FURTHER MIGRATION OF THE CONTAMINANTS IN THE ENVIRONMENT AND THEREFORE THIS ALTERNATIVE RECEIVED A "-".

B. OFF SITE LANDFILL WAS GIVEN "-" BECAUSE A LANDFILL MAY ALLOW FOR THE POTENTIAL OF MIGRATION IF THE LINER IS NOT MAINTAINED AND IS THEREFORE, THE LEAST PREFERRED ALTERNATIVE UNDER SARA.

C. STABILIZATION WITH OFF SITE LANDFILL WAS GIVEN A "0" FOR LONG-TERM EFFECTIVENESS BECAUSE IT OFFERS A MORE PERMANENT SOLUTION THAN LANDFILLING ALONE BUT THE WASTES ARE NOT DESTROYED AS IN THE OTHER TREATMENT ALTERNATIVES.

D. IN-SITU GLASSIFICATION, CHEMICAL DECHLORINIZATION, OFF AND ON SITE INCINERATION AND BIOLOGICAL TREATMENT WERE GIVEN A "+" BECAUSE THEY ELIMINATE THE CONTAMINANT THEREBY RENDERING BOTH LONG-TERM AND PERMANENT SOLUTIONS. LITTLE TO NO MAINTENANCE IS REQUIRED FOR THESE ALTERNATIVES. GLASSIFICATION, CHEMICAL DECHLORINIZATION AND BIOLOGICAL TREATMENT ARE ALL INNOVATIVE TECHNOLOGIES, THEREFORE, THERE IS A DEGREE OF UNCERTAINTY ASSOCIATED WITH THESE METHODS NOT ASSOCIATED WITH OFF OR ON SITE INCINERATION.

5. IMPLEMENTABILITY

A. NO ACTION IS VERY SIMPLE TO IMPLEMENT THEREFORE, IT RATED A "+". THERE ARE NO CONSTRUCTION ACTIVITIES, ONLY SETTING UP MONITORING SYSTEMS.

B. OFF SITE LANDFILL, STABILIZATION WITH OFF SITE LANDFILL AND OFF SITE INCINERATION WERE GIVEN A "+" BECAUSE OF THE MINIMUM AMOUNT OF DIFFICULTY THAT WOULD BE EXPECTED FROM SIMPLY EXCAVATING THE WASTE AND TAKING THEM OFF SITE FOR DISPOSAL. THESE ALTERNATIVES ARE VERY COMPATIBLE WITH BOTH EXISTING AND FUTURE LAND USES.

C. IN-SITU GLASSIFICATION WAS GIVEN A "-" BECAUSE THERE WILL BE SOME DIFFICULTY ASSOCIATED WITH THE CONSTRUCTION OF THIS PROCESS. IT IS A NEW TECHNOLOGY AND THERE WILL BE A NEED FOR SPECIAL EQUIPMENT AND SPECIALISTS. FURTHERMORE, THIS METHOD CAUSES THE SOIL TO CONTRACT WHICH MAY CAUSE STRUCTURAL PROBLEMS WITH THE EXISTING BUILDINGS LOCATED ON THE SITE.

D. ON SITE INCINERATION WAS RATED A "+". THIS TECHNOLOGY IS NEW. THERE IS SOME DIFFICULTY ASSOCIATED WITH THE CONSTRUCTION SETUP AND TRIAL TEST BURN, HOWEVER THIS TECHNOLOGY HAS PROVEN TO BE RELIABLE IN THE PAST. AMPLE ROOM EXISTS AT THE SITE TO SET UP AND OPERATE AN ON SITE INCINERATOR.

E. BIOLOGICAL TREATMENT AND CHEMICAL DECHLORINIZATION WERE BOTH GIVEN A "0" BECAUSE THEY ARE INNOVATIVE TECHNOLOGIES. EXCELLENT RESULTS HAVE BEEN OBTAINED IN FIELD TESTS ON BOTH PROCESSES WHICH ARE BEING CONSIDERED AND IMPLEMENTED ON OTHER SUPERFUND SITES. THERE IS AMPLE AVAILABLE SPACE AT THE SITE FOR BOTH OF THESE TECHNOLOGIES. THEY ARE COMPATIBLE WITH CURRENT AND FUTURE LAND USES.

6. COST

ESTIMATED COSTS FOR EACH REMEDIAL ACTION ALTERNATIVE ARE SUMMARIZED IN TABLE 1. A BREAKDOWN OF THIS COST MAY BE FOUND IN APPENDIX A OF THE FEASIBILITY STUDY.

7. COMMUNITY ACCEPTANCE

THE PUBLIC COMMENT PERIOD BEGAN JANUARY 25, 1988 AND ENDED FEBRUARY 24, 1988. THE PUBLIC MEETING WAS HELD FEBRUARY 2. ONE COMMENT WAS RECEIVED DURING THE PUBLIC COMMENT PERIOD OBJECTING TO THE RECOMMENDED ALTERNATE FROM A VENDOR OF A DIFFERENT TECHNOLOGY.

8. STATE ACCEPTANCE

THE STATE OF TEXAS (TEXAS WATER COMMISSION) HAS CONCURRED WITH CHEMICAL DECHLORINIZATION AS THE TREATMENT ALTERNATIVE.

9. OVERALL PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT

"NO ACTION" DOES NOT PROTECT HUMAN HEALTH AND THE ENVIRONMENT. OFF SITE LANDFILL, STABILIZATION WITH OFF SITE LANDFILL AND OFF SITE INCINERATION, PROTECT HUMAN HEALTH AND THE ENVIRONMENT MORE THAN THE "NO ACTION" ALTERNATIVE, HOWEVER, ALL REQUIRE EXCAVATION AND TRANSPORTATION WHICH INCREASES THE EXPOSURE OF THE WORKERS AND THE COMMUNITY TO THE PCBS. GLASSIFICATION DOES NOT REQUIRE EXCAVATION OR TRANSPORTATION AND DOES PROVIDE PROTECTION TO HUMAN HEALTH AND THE ENVIRONMENT. IT DESTROYS THE CONTAMINANT AND THEREFORE ELIMINATES THE THREAT OF DERMAL CONTACT AND INGESTION. HOWEVER, BECAUSE BUILDINGS ARE LOCATED ON SITE IT IS NOT TECHNICALLY FEASIBLE. CHEMICAL DECHLORINIZATION, BIOLOGICAL TREATMENT AND ON SITE INCINERATION ALL REQUIRE EXCAVATION FOR TREATMENT. THESE TREATMENT PROCESSES DO MEET THE TSCA SPILL CLEANUP POLICY RECOMMENDATION FOR THE PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT. THEY DESTROY THE CONTAMINANT AND THEREBY ELIMINATE THE THREAT OF DERMAL CONTACT AND INGESTION, AND THEY ARE SARA PREFERRED REMEDIES.

#RA

SELECTED REMEDY: DECHLORINIZATION

RATIONALE

AS PREVIOUSLY STATED, BASED ON THE INFORMATION AVAILABLE TO EVALUATE THE EIGHT REMEDIAL OPTIONS AGAINST THESE NINE CRITERIA, EPA HAS CONCLUDED THAT ALTERNATIVE 7, CHEMICAL DECHLORINIZATION, IS THE AGENCY'S SELECTED ALTERNATIVE. THIS ALTERNATIVE IS PROTECTIVE OF HUMAN HEALTH AND THE ENVIRONMENT, ATTAINS ALL APPLICABLE OR RELEVANT AND APPROPRIATE FEDERAL AND STATE REQUIREMENTS AND IS COST EFFECTIVE. THIS ALTERNATIVE SATISFIES SARA'S PREFERENCE FOR A REMEDY WHICH EMPLOYS TREATMENT AS THE PRINCIPAL ELEMENT TO REDUCE TOXICITY, MOBILITY OR VOLUME.

TREATABILITY STUDIES WILL BE CONDUCTED DURING THE DESIGN PHASE OF THE PROJECT. THE CONTAMINATED SOILS WILL BE EXCAVATED AND AN ALKALI METAL POLYETHYLENE GLYCOLATE REAGENT (APEG) WILL BE APPLIED. THIS REAGENT DECHLORINATES THE PCBS, RENDERING THEM HARMLESS. AFTER TREATING THE SOIL TO OR BELOW A PCB CONCENTRATION OF 25 PPM, THE LIQUID BYPRODUCTS OF THIS TREATMENT MAY BE PRETREATED IF NECESSARY AND DISCHARGED INTO A PUBLIC OWNED TREATMENT WORKS FACILITY.

#OM

OPERATION AND MAINTENANCE (O&M)

THE NEED FOR FUTURE OPERATION AND MAINTENANCE WILL BE MINIMIZED SINCE THE CONTAMINATION WILL BE REMOVED. SITE OPERATION AND MAINTENANCE WILL INCLUDE A SHALLOW GROUNDWATER SAMPLING AND ANALYSIS PROGRAM WHICH WILL BE INCLUDED WITH THE REMEDY FOR THE GROUNDWATER. ADDITIONAL SITE MAINTENANCE WILL ENTAIL THE INSPECTION AND CARE OF THE SURFACE VEGETATION.

#FA**FUTURE ACTIONS**

NO FUTURE ACTIONS ARE ANTICIPATED FOR THE SOIL. THE SELECTED REMEDIAL ACTION WILL AFFORD A HIGH DEGREE OF PERMANENCE.

#SCH**REMEDIAL ACTION SCHEDULE**

APPROVE REMEDIAL ACTION (SIGN ROD)	MARCH 1988
COMPLETE ENFORCEMENT NEGOTIATION	SEPT. 1988
AWARD COOPERATIVE AGREEMENT AMENDMENT FOR DESIGN OF APPROVED REMEDY	SEPT. 1988
START DESIGN	OCT. 1988
COMPLETE DESIGN	DEC. 1989
AWARD REMEDIAL ACTION COOPERATIVE AGREEMENT AMENDMENT FOR CONSTRUCTION OF APPROVED REMEDY	DEC. 1989
START CONSTRUCTION	JUNE 1990
COMPLETE REMEDIATION	JUNE 1991.

#TMA**TABLES, MEMORANDA, ATTACHMENTS****ATTACHMENT A****ADMINISTRATIVE RECORD INDEX**

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE APRIL 16, 1984
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR CHARLES E. NEMIR
ORIGINATOR - AFFILIATION TEXAS DEPARTMENT OF WATER RESOURCES
RECIPIENT DICK WHITTINGTON
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION RE: HAZARDOUS RANKING SYSTEM SUBMITTALS
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 1

DOCUMENT DATE NOVEMBER 13, 1973
DOCUMENT TYPE WORKSHEET PICTURE LOG & WATER CONTROL
SYSTEM
ORIGINATOR JERRY R. KAHL
ORIGINATOR - AFFILIATION TEXAS WATER POLLUTION CONTROL
RECIPIENT FILES
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION
NUMBER OF PAGES 3
DOCUMENT NUMBER SEQUENCES 2

DOCUMENT DATE JUNE 14, 1984
DOCUMENT TYPE HAZARDOUS RANKING SYSTEMS PACKAGE
ORIGINATOR U.S. EPA - REGION VI
ORIGINATOR - AFFILIATION
RECIPIENT FILES
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION DOCUMENT
NUMBER OF PAGES 15
DOCUMENT NUMBER SEQUENCES 3

DOCUMENT DATE
DOCUMENT TYPE ENFORCEMENT NOTICE
ORIGINATOR
ORIGINATOR - AFFILIATION
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION ENFORCEMENT NOTICE
NUMBER OF PAGES 3
DOCUMENT NUMBER SEQUENCES 4

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE APRIL 12, 1982
DOCUMENT TYPE INTEROFFICE MEMORANDUM
ORIGINATOR FRED C. DALBY
ORIGINATOR - AFFILIATION TEXAS DEPARTMENT OF WATER RESOURCES
RECIPIENT GARY SCHROEDER
RECIPIENT - AFFILIATION TEXAS DEPARTMENT OF WATER RESOURCES
DESCRIPTION TCE & PCB CONTAMINATION
NUMBER OF PAGES 21
DOCUMENT NUMBER SEQUENCES 13

DOCUMENT DATE AUGUST 18, 1983
DOCUMENT TYPE INTEROFFICE MEMORANDUM
ORIGINATOR FRED C. DALBY
ORIGINATOR - AFFILIATION TEXAS DEPARTMENT OF WATER RESOURCES
RECIPIENT GARY SCHROEDER
RECIPIENT - AFFILIATION TEXAS DEPARTMENT OF WATER RESOURCES
DESCRIPTION ENFORCEMENT ACTION
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 14

DOCUMENT DATE APRIL 26, 1984
DOCUMENT TYPE WORKSHEET
ORIGINATOR STEVE GILREIN
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 15

DOCUMENT DATE APRIL 12, 1984
DOCUMENT TYPE WORKSHEET
ORIGINATOR FRED C. DALBY
ORIGINATOR - AFFILIATION TEXAS DEPARTMENT OF WATER RESOURCES
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION SITE INSPECTION REPORT
NUMBER OF PAGES 10
DOCUMENT NUMBER SEQUENCES 16

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
 JOB NUMBER: T327

DOCUMENT DATE	AUGUST 12, 1983
DOCUMENT TYPE	DOCUMENT
ORIGINATOR	FRED C. DALBY
ORIGINATOR - AFFILIATION	TEXAS DEPARTMENT OF WATER RESOURCES
RECIPIENT	FILE
RECIPIENT - AFFILIATION	U.S. EPA - REGION VI
DESCRIPTION	INVESTIGATION REPORT
NUMBER OF PAGES	4
DOCUMENT NUMBER SEQUENCES	17
DOCUMENT DATE	JULY 5, 1982
DOCUMENT TYPE	INTEROFFICE MEMORANDUM
ORIGINATOR	MERTON J. COLTON
ORIGINATOR - AFFILIATION	TEXAS DEPARTMENT OF WATER RESOURCES
RECIPIENT	GARY D. SCHROEDER
RECIPIENT - AFFILIATION	TEXAS DEPARTMENT OF WATER RESOURCES
DESCRIPTION	ENFORCEMENT ACTION
NUMBER OF PAGES	1
DOCUMENT NUMBER SEQUENCES	18

DOCUMENT DATE	JULY 5, 1982
DOCUMENT TYPE	DOCUMENT
ORIGINATOR	FRED C. DALBY
ORIGINATOR - AFFILIATION	TEXAS DEPARTMENT OF WATER RESOURCES
RECIPIENT	FILE
RECIPIENT - AFFILIATION	U.S. EPA - REGION VI
DESCRIPTION	SITE INVESTIGATION REPORT
NUMBER OF PAGES	3
DOCUMENT NUMBER SEQUENCES	19

DOCUMENT DATE	MARCH 22, 1982
DOCUMENT TYPE	DOCUMENT
ORIGINATOR	
ORIGINATOR - AFFILIATION	
RECIPIENT	FILE
RECIPIENT - AFFILIATION	U.S. EPA - REGION VI
DESCRIPTION	CLEAN-UP BY OWNER
NUMBER OF PAGES	1
DOCUMENT NUMBER SEQUENCES	20

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE SEPTEMBER 14, 1981
DOCUMENT TYPE B. MCDONALD-BUYTON
ORIGINATOR
ORIGINATOR AFFILIATION
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION HEALTH COMPLAINTS
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 21

DOCUMENT DATE
DOCUMENT TYPE WORKSHEET
ORIGINATOR FRED C. DALBY
ORIGINATOR - AFFILIATION TEXAS DEPARTMENT OF WATER RESOURCES
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION COMPLAINT REPORT
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 22

DOCUMENT DATE MAY 15, 1984
DOCUMENT TYPE INTEROFFICE MEMO
ORIGINATOR GAIL CORRIGAN
ORIGINATOR - AFFILIATION TEXAS DEPARTMENT OF WATER RESOURCES
RECIPIENT BRYAN DIXON
RECIPIENT - AFFILIATION TEXAS DEPARTMENT OF WATER RESOURCES
DESCRIPTION SOL LYNN PROPERTY
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 23

DOCUMENT DATE JANUARY 31, 1985
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SAMMY RUSSO
ORIGINATOR - AFFILIATION ROY F. WESTON
RECIPIENT MICHAEL WARNER
RECIPIENT - AFFILIATION
DESCRIPTION LAB RESULTS
NUMBER OF PAGES 31
DOCUMENT NUMBER SEQUENCES 24

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE JUNE 27, 1985
DOCUMENT TYPE MEMO
ORIGINATOR KENDALL YOUNG
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT CHARLES GAZDA
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION ANALYTICAL DATA
NUMBER OF PAGES 15
DOCUMENT NUMBER SEQUENCES 25

DOCUMENT DATE AUGUST 27, 1984
DOCUMENT TYPE RECORD OF COMMUNICATION
ORIGINATOR GEORGE BUYNOSKI
ORIGINATOR - AFFILIATION CENTER OF DISEASE CONTROL
RECIPIENT JOHN COCHRAN
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION IMMEDIATE HEALTH HAZARD FROM SITE
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 26

DOCUMENT DATE SEPTEMBER 25, 1984
DOCUMENT TYPE RECORD OF COMMUNICATION
ORIGINATOR JOHN COCHRAN
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT TOM GODDARD
RECIPIENT - AFFILIATION TEXAS ATTORNEY GENERALS OFFICE
DESCRIPTION SOL LYNN LAW SUIT
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 27

DOCUMENT DATE OCTOBER 31, 1984
DOCUMENT TYPE DOCUMENT
ORIGINATOR
ORIGINATOR - AFFILIATION
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION PLANNING ACTIVITIES AND RI/FS
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 28

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE FEBRUARY 6, 1985
DOCUMENT TYPE NEWSPAPER ARTICLE
ORIGINATOR BILL DAWSON
ORIGINATOR - AFFILIATION THE HOUSTON CHRONIDE
RECIPIENT PUBLIC
RECIPIENT - AFFILIATION
DESCRIPTION FALL STUDY OF TOXIC CLEANUP PLANNED
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 29

DOCUMENT DATE FEBRUARY 6, 1985
DOCUMENT TYPE NEWSPAPER ARTICLE
ORIGINATOR HAROLD SCARLETT
ORIGINATOR - AFFILIATION THE HOUSTON POST
RECIPIENT PUBLIC
RECIPIENT - AFFILIATION
DESCRIPTION EPA EVALUATING CLEANUP STEPS FOR
WASTE SITE
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 29

DOCUMENT DATE NOVEMBER 13, 1973
DOCUMENT TYPE WORKSHEET
ORIGINATOR JERRY R. KAHL
ORIGINATOR - AFFILIATION TEXAS WATER POLLUTION CONTROL
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION COMMENTS OF VISUAL CONTAMINANTS
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 30

DOCUMENT DATE FEBRUARY 4, 1985
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR WARREN ZEHNER
ORIGINATOR - AFFILIATION WESTON - SPER
RECIPIENT GERALD FONTENOT
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION INDUSTRIAL TRANSFORMER SITE INSPECTION
NUMBER OF PAGES 11
DOCUMENT NUMBER SEQUENCES 31

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE JUNE 11, 1985
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SUSAN K. SIEGEL
ORIGINATOR - AFFILIATION WESTON SPER
RECIPIENT GERALD FONTENOT
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION WELL SAMPLING
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 32

DOCUMENT DATE OCTOBER 2, 1985
DOCUMENT TYPE INTEROFFICE MEMORANDUM
ORIGINATOR KAREN SOLARI
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT GERALD FONTENOT
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION REVIEW OF DATA
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 33

DOCUMENT DATE DECEMBER 1985
DOCUMENT TYPE REPORT
ORIGINATOR U.S. EPA - REGION VI
ORIGINATOR - AFFILIATION
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION COMMUNITY RELATIONS PLAN
NUMBER OF PAGES 22
DOCUMENT NUMBER SEQUENCES 34

DOCUMENT DATE FEBRUARY 11, 1985
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR ROSEMARY HENDERSON
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT CHARLES GAZDA
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION TRIP REPORT
NUMBER OF PAGES 3
DOCUMENT NUMBER SEQUENCES 35

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE NOVEMBER 10, 1985
DOCUMENT TYPE NEWSPAPER ARTICLE
ORIGINATOR HAROLD SCARLETT
ORIGINATOR - AFFILIATION THE HOUSTON POST
RECIPIENT PUBLIC
RECIPIENT - AFFILIATION
DESCRIPTION WASTE SITE OWNER OBJECTS TO CLEANUP
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 36

DOCUMENT DATE OCTOBER 28, 1985
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR CHARLES R. FAULD
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT BONNIE DEVOS
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION JUSTIFICATION FOR RI/FS
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 37

DOCUMENT DATE MARCH 7, 1983
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR CHARLES NEMIR
ORIGINATOR - AFFILIATION TEXAS DEPARTMENT OF WATER RESOURCES
RECIPIENT JIM MATTOX
RECIPIENT - AFFILIATION ATTORNEY GENERAL OF TEXAS
DESCRIPTION LEGAL ACTION AGAINST SOL LYNN
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 38

DOCUMENT DATE JUNE 11, 1982
DOCUMENT TYPE INTEROFFICE CORRESPONDENCE
ORIGINATOR LEW TURNOCK
ORIGINATOR - AFFILIATION CITY OF HOUSTON
RECIPIENT JOHN R. WHITTINGTON
RECIPIENT - AFFILIATION CITY OF HOUSTON
DESCRIPTION TCE HEALTH HAZARD
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 39

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE MARCH 4, 1985
DOCUMENT TYPE RECORD OF COMMUNICATION
ORIGINATOR DREW PUFFER
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT TOM GODDARD
RECIPIENT - AFFILIATION TEXAS ATTORNEY GENERAL'S OFFICE
DESCRIPTION CIVIL PENALTY TRIAL IN JULY
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 40

DOCUMENT DATE AUGUST 27, 1984
DOCUMENT TYPE RECORD OF COMMUNICATION
ORIGINATOR JOHN COCHRAN
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT GEORGE BUYNOSKI
RECIPIENT - AFFILIATION CENTER FOR DISEASE CONTROL
DESCRIPTION HEALTH HAZARD AT SITE
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 41

DOCUMENT DATE APRIL 24, 1985
DOCUMENT TYPE MEMORANDUM
ORIGINATOR SAMUEL L. NOTT
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT WILLIAM HATHAWAY
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION INDUSTRIAL TRANSFORMERS
NUMBER OF PAGES 3
DOCUMENT NUMBER SEQUENCES 42

DOCUMENT DATE JANUARY 15, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR JOHN BINS
ORIGINATOR - AFFILIATION ERT COMPANY
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION SAMPLING
NUMBER OF PAGES 10
DOCUMENT NUMBER SEQUENCES 43

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE JUNE 27, 1985
DOCUMENT TYPE DOCUMENT
ORIGINATOR
ORIGINATOR - AFFILIATION
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION FINAL REPORT LABORATORY REPORT
NUMBER OF PAGES 41
DOCUMENT NUMBER SEQUENCES 44

DOCUMENT DATE MARCH 17, 1986
DOCUMENT TYPE DOCUMENT
ORIGINATOR TWC
ORIGINATOR - AFFILIATION
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION WORK SCOPE FOR RI/FS STUDIES
NUMBER OF PAGES 20
DOCUMENT NUMBER SEQUENCES 45

DOCUMENT DATE OCTOBER 13, 1986
DOCUMENT TYPE REPORT
ORIGINATOR RADIAN CORPORATION
ORIGINATOR - AFFILIATION
RECIPIENT TEXAS WATER COMMISSION
RECIPIENT - AFFILIATION
DESCRIPTION PROJECT SAMPLING PLAN
NUMBER OF PAGES 71
DOCUMENT NUMBER SEQUENCES 46

DOCUMENT DATE OCTOBER 13, 1986
DOCUMENT TYPE REPORT
ORIGINATOR RADIAN CORPORATION
ORIGINATOR - AFFILIATION
RECIPIENT TEXAS WATER COMMISSION
RECIPIENT - AFFILIATION
DESCRIPTION PROJECT HEALTH & SAFETY PLAN
NUMBER OF PAGES 34
DOCUMENT NUMBER SEQUENCES 47

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE JUNE 30, 1986
DOCUMENT TYPE DOCUMENT
ORIGINATOR TEXAS WATER COMMISSION
ORIGINATOR - AFFILIATION
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION CONTRACT WITH RADIAN
NUMBER OF PAGES 78
DOCUMENT NUMBER SEQUENCES 48

DOCUMENT DATE DECEMBER 22, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR ARTHUR TALLEY
ORIGINATOR - AFFILIATION TWC
RECIPIENT SOL LYNN
RECIPIENT - AFFILIATION
DESCRIPTION REMEDIAL INVESTIGATION
NUMBER OF PAGES 14
DOCUMENT NUMBER SEQUENCES 49

DOCUMENT DATE JANUARY 15, 1987
DOCUMENT TYPE
ORIGINATOR JOHN BINS
ORIGINATOR - AFFILIATION ERT
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION INDUSTRIAL TRANSFORMERS
NUMBER OF PAGES 3
DOCUMENT NUMBER SEQUENCES 50

DOCUMENT DATE JANUARY 16, 1987
DOCUMENT TYPE RECORD OF COMMUNICATION
ORIGINATOR ROBIE HIRT
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION INDUSTRIAL TRANSFORMER PROGRESS
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 51

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE JANUARY 29, 1987
DOCUMENT TYPE MEMORANDUM
ORIGINATOR STEVE MUSE
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION REPORT ON FIELD AUDIT OF RI
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 52

DOCUMENT DATE JUNE 17, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SHARRON OPPEL
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION RI/FS INFORMATION
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 53

DOCUMENT DATE JULY 15, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR ARTHUR TALLEY
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT SOL LYNN
RECIPIENT - AFFILIATION
DESCRIPTION REMEDIAL INVESTIGATION
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 54

DOCUMENT DATE JULY 28, 1987
DOCUMENT TYPE MEMORANDUM
ORIGINATOR SHERRY FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT CARL HICKAM
RECIPIENT - AFFILIATION AGENCY FOR TOXIC SUBSTANCE CONTROL &
DISEASE REGISTRY
DESCRIPTION
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 55

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE JULY 29, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SHERRY FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION COMMENTS ON DRAFT RI
NUMBER OF PAGES 3
DOCUMENT NUMBER SEQUENCES 56

DOCUMENT DATE AUGUST 26, 1987
DOCUMENT TYPE INTEROFFICE MEMORANDUM
ORIGINATOR JOHN DUPONT
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION REVIEW OF DATA PACKAGE FOR SOL LYNN
NUMBER OF PAGES 3
DOCUMENT NUMBER SEQUENCES 57

DOCUMENT DATE SEPTEMBER 8, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DONALD H. WILLIAMS
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION TCE CLEANUP CRITERIA
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 58

DOCUMENT DATE SEPTEMBER 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SHERRY FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION PHASE II RI SCOPE OF SERVICES
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 59

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE SEPTEMBER 10, 1987
DOCUMENT TYPE MEMORANDUM
ORIGINATOR DON WILLIAMS
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT CARL HICKAM
RECIPIENT - AFFILIATION AGENCY FOR TOXIC SUBSTANCE & DISEASE
REGISTRY
DESCRIPTION
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 60

DOCUMENT DATE SEPTEMBER 11, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SHERRY FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION COMMENTS ON PRELIMINARY TECHNOLOGIES
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 61

DOCUMENT DATE SEPTEMBER 17, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR THOMAS W. HOSKINS
ORIGINATOR - AFFILIATION RADIAN CORPORATION
RECIPIENT SHERRY FUERST
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION TCE ACTION LEVEL
NUMBER OF PAGES 4
DOCUMENT NUMBER SEQUENCES 62

DOCUMENT DATE SEPTEMBER 24, 1987
DOCUMENT TYPE MEMORANDUM
ORIGINATOR SHARON FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION ACTION LEVEL FOR TCE
NUMBER OF PAGES 3
DOCUMENT NUMBER SEQUENCES 63

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE SEPTEMBER 30, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SHERRY FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION COMPLIANT DISPOSAL FACILITIES
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 64

DOCUMENT DATE OCTOBER 7, 1987
DOCUMENT TYPE MEMORANDUM
ORIGINATOR SHARON FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT CARL HICKAM
RECIPIENT - AFFILIATION AGENCY FOR TOXIC SUBSTANCE & DISEASE
CONTROL
DESCRIPTION TCE CONTAMINATION
NUMBER OF PAGES 3
DOCUMENT NUMBER SEQUENCES 65

DOCUMENT DATE OCTOBER 10, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SHARON FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT MARY MCGILL
RECIPIENT - AFFILIATION RADIAN CORPORATION
DESCRIPTION DECONTAMINATION WATER
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 66

DOCUMENT DATE OCTOBER 12, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR ARTHUR TALLEY
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT RLAZ ANMEND
RECIPIENT - AFFILIATION RADIAN CORPORATION
DESCRIPTION DRAFT FEASIBILITY COMMENTS
NUMBER OF PAGES 13
DOCUMENT NUMBER SEQUENCES 67

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE OCTOBER 13, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SHARON FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION REVIEW OF PRELIMINARY TECHNOLOGIES
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 68

DOCUMENT DATE NOVEMBER 5, 1987
DOCUMENT TYPE MEMORANDUM
ORIGINATOR GEORGE PETTIGREW
ORIGINATOR - AFFILIATION AGENCY FOR TOXIC SUBSTANCE & DISEASE
CONTROL
RECIPIENT SHARON FUERST
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION HEALTH CONSULTATION
NUMBER OF PAGES 3
DOCUMENT NUMBER SEQUENCES 69
DOCUMENT DATE NOVEMBER 6, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT ROBIN GELSTON-WALLS
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION IDENTIFYING FEDERAL ARARS
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 70

DOCUMENT DATE NOVEMBER 9, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT PAULINE KRUEGER TRUST
RECIPIENT - AFFILIATION MOODY NATIONAL BANK
DESCRIPTION ACCESS AGREEMENT
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 71

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE NOVEMBER 9, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT LAVANNE P. MCLAUGHLIN
RECIPIENT - AFFILIATION
DESCRIPTION ACCESS AGREEMENT
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 72

DOCUMENT DATE NOVEMBER 9, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT MAURY RUBERSTEIN
RECIPIENT - AFFILIATION
DESCRIPTION ACCESS AGREEMENT
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 73

DOCUMENT DATE NOVEMBER 9, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT LAWRENCE KAGEN
RECIPIENT - AFFILIATION KAGEN-EDELMAN ENTERPRISES
DESCRIPTION ACCESS AGREEMENT
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 74

DOCUMENT DATE NOVEMBER 10, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SHERRY FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION COMMENTS ON DRAFT RI REPORT
NUMBER OF PAGES 7
DOCUMENT NUMBER SEQUENCES 75

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE NOVEMBER 19, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SHERRY FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION COMMENTS ON RI REPORT
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 76

DOCUMENT DATE NOVEMBER 19, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR STANLEY G. HITT
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT GREG TIPPLE
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION CLEANUP LEVELS FOR TCE
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 77

DOCUMENT DATE DECEMBER 16, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SHERRY FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION COMMENTS ON DRAFT FS
NUMBER OF PAGES 9
DOCUMENT NUMBER SEQUENCES 78

DOCUMENT DATE DECEMBER 23, 1987
DOCUMENT TYPE MEMORANDUM
ORIGINATOR SHERRY FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION ALTERNATIVE SELECTION
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 79

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE DECEMBER 23, 1987
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR SHERRY FUERST
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION PHASE II DRAFT PROJECT PLAN COMMENTS
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 80

DOCUMENT DATE FEBRUARY 29, 1984
DOCUMENT TYPE INTEROFFICE MEMO
ORIGINATOR MIKE DICK
ORIGINATOR - AFFILIATION TEXAS DEPARTMENT OF WATER RESOURCES
RECIPIENT ROD KIMBRO
RECIPIENT - AFFILIATION TEXAS DEPARTMENT OF WATER RESOURCES
DESCRIPTION CONTAMINATION AT SITE
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 81

DOCUMENT DATE NOVEMBER 29, 1985
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR CARLENE CHAMBERS
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT CHARLES FAULDS
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION SCHEDULES
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 82

DOCUMENT DATE SEPTEMBER 5, 1985
DOCUMENT TYPE RECORD OF COMMUNICATION
ORIGINATOR STEVE MUSE
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION WORKPLAN SCHEDULE
NUMBER OF PAGES
DOCUMENT NUMBER SEQUENCES 83

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE MAY 23, 1985
DOCUMENT TYPE WORKSHEET
ORIGINATOR S&B LABS
ORIGINATOR - AFFILIATION
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION WATER ANALYSIS RESULTS
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 84

DOCUMENT DATE APRIL 2, 1985
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR LINDA GRAHAM
ORIGINATOR - AFFILIATION CHROMASPEC
RECIPIENT SOL LYNN
RECIPIENT - AFFILIATION
DESCRIPTION LAB RESULTS
NUMBER OF PAGES 3
DOCUMENT NUMBER SEQUENCES 85

DOCUMENT DATE MARCH 17, 1986
DOCUMENT TYPE DOCUMENT
ORIGINATOR
ORIGINATOR - AFFILIATION
RECIPIENT FILE
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION TEXAS WATER COMMISSION REQUEST FOR PROPOSALS
NUMBER OF PAGES 13
DOCUMENT NUMBER SEQUENCES 86

DOCUMENT DATE MAY 5, 1986
DOCUMENT TYPE INTEROFFICE MEMORANDUM
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT LARRY SOWARD
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION EXECUTIVE SUMMARY REVIEW
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 87

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE APRIL 10, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR NANCY E. OLINGER
ORIGINATOR - AFFILIATION TEXAS ATTORNEY GENERAL'S OFFICE
RECIPIENT BARRY BERGER
RECIPIENT - AFFILIATION NEWTON B. SCHWARTZ
DESCRIPTION STATE OF TEXAS V. SOL LYNN
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 88

DOCUMENT DATE APRIL 8, 1988
DOCUMENT TYPE INTEROFFICE MEMO
ORIGINATOR ARTHUR TALLEY
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT GREG TIPPLE
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION CONSULTANT'S SITE VISIT
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 89

DOCUMENT DATE MARCH 31, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR BARRY S. BERGER
ORIGINATOR - AFFILIATION NEWTON B. SCHWARTZ
RECIPIENT DAVID H. SORRELLS
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION STATE OF TEXAS VS. SOL LYNN
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 90

DOCUMENT DATE MARCH 18, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT SOL LYNN
RECIPIENT - AFFILIATION
DESCRIPTION SITE VISIT
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 91

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER

JOB NUMBER: T327

DOCUMENT DATE MARCH 11, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT SOL LYNN
RECIPIENT - AFFILIATION
DESCRIPTION SITE VISIT
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 92

DOCUMENT DATE JULY 21, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT H.E. FINGER
RECIPIENT - AFFILIATION
DESCRIPTION ACCESS AGREEMENT
NUMBER OF PAGES 4
DOCUMENT NUMBER SEQUENCES 93

DOCUMENT DATE JULY 21, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT KAGEN EDELMAN ENTERPRISES
RECIPIENT - AFFILIATION
DESCRIPTION ACCESS AGREEMENT
NUMBER OF PAGES 4
DOCUMENT NUMBER SEQUENCES 94

DOCUMENT DATE JULY 21, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT LMNCO
RECIPIENT - AFFILIATION
DESCRIPTION ACCESS AGREEMENT
NUMBER OF PAGES 4
DOCUMENT NUMBER SEQUENCES 95

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE JULY 21, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT PDC PARTNERSHIP
RECIPIENT - AFFILIATION
DESCRIPTION ACCESS AGREEMENT
NUMBER OF PAGES 4
DOCUMENT NUMBER SEQUENCES 96

DOCUMENT DATE JULY 21, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT DARLENE JONES
RECIPIENT - AFFILIATION GILBRALTER SAVINGS ASSOCIATION
DESCRIPTION ACCESS AGREEMENT
NUMBER OF PAGES 4
DOCUMENT NUMBER SEQUENCES 97

DOCUMENT DATE JULY 22, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT BARRY S. BERGER
RECIPIENT - AFFILIATION
DESCRIPTION ACCESS AGREEMENT
NUMBER OF PAGES 6
DOCUMENT NUMBER SEQUENCES 98

DOCUMENT DATE
DOCUMENT TYPE DOCUMENT
ORIGINATOR RADIAN CORPORATION
ORIGINATOR - AFFILIATION
RECIPIENT FILES
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION SCOPE OF WORK
NUMBER OF PAGES 29
DOCUMENT NUMBER SEQUENCES 99

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE AUGUST 4, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR ARTHUR TALLEY
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT PAUL SIEMINSKI
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION COOPERATIVE AGREEMENT SCHEDULES
NUMBER OF PAGES
DOCUMENT NUMBER SEQUENCES 100

DOCUMENT DATE AUGUST 15, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR DAVID SORRELLS
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT DARLENE JONES
RECIPIENT - AFFILIATION GILBRALTER SAVINGS ASSOCIATION
DESCRIPTION ACCESS AGREEMENT
NUMBER OF PAGES 4
DOCUMENT NUMBER SEQUENCES 101

DOCUMENT DATE AUGUST 27, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR PAUL SIEMINSKI
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT DAVID SORRELLS
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION COMMENTS ON HEALTH & SAFETY PLAN
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 102

DOCUMENT DATE AUGUST 29, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR JAMES F. HALEY
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT SOL LYNN
RECIPIENT - AFFILIATION
DESCRIPTION ACCESS AGREEMENT
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 103

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE SEPTEMBER 3, 1986
DOCUMENT TYPE RECORD OF COMMUNICATION
ORIGINATOR ROBIE HIRT
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT BONNIE DEVOS
RECIPIENT - AFFILIATION U.S. EPA - REGION VI
DESCRIPTION SITE SCHEDULE UPDATE
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 104

DOCUMENT DATE SEPTEMBER 8, 1986
DOCUMENT TYPE INTEROFFICE MEMORANDUM
ORIGINATOR ARTHUR TALLEY
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT DAVID SORRELLS
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION STATUS REPORT
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 105

DOCUMENT DATE OCTOBER 6, 1986
DOCUMENT TYPE INTEROFFICE MEMORANDUM
ORIGINATOR ARTHUR TALLEY
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT DAVID SORRELLS
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION STATUS REPORT
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 106

DOCUMENT DATE NOVEMBER 3, 1986
DOCUMENT TYPE INTEROFFICE MEMORANDUM
ORIGINATOR ARTHUR TALLEY
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT DAVID SORRELLS
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION STATUS REPORT
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 107

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE DECEMBER 1, 1986
DOCUMENT TYPE INTEROFFICE MEMORANDUM
ORIGINATOR ARTHUR TALLEY
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT DAVID SORRELLS
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION STATUS REPORT
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 108

DOCUMENT DATE SEPTEMBER 29, 1986
DOCUMENT TYPE RECORD OF COMMUNICATION
ORIGINATOR CINDY ADUDELLE
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION ACCESS AGREEMENTS
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 109

DOCUMENT DATE OCTOBER 3, 1986
DOCUMENT TYPE RECORD OF COMMUNICATION
ORIGINATOR CINDY ADUDELLE
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT ARTHUR TALLEY
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION SCHEDULE REVISIONS
NUMBER OF PAGES 1
DOCUMENT NUMBER SEQUENCES 110

DOCUMENT DATE OCTOBER 6, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR ARTHUR TALLEY
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
RECIPIENT CALVIN SPENCER
RECIPIENT - AFFILIATION RADIAN CORPORATION
DESCRIPTION COMMENTS ON DRAFT PROJECT PLAN
NUMBER OF PAGES 18
DOCUMENT NUMBER SEQUENCES 111

ADMINISTRATIVE RECORD INDEX

JOB NAME: INDUSTRIAL TRANSFORMER
JOB NUMBER: T327

DOCUMENT DATE SEPTEMBER 22, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR PAUL SIEMINSKI
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT GREG TIPPLE
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION QA COMMENTS
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 112

DOCUMENT DATE AUGUST 27, 1986
DOCUMENT TYPE CORRESPONDENCE
ORIGINATOR PAUL SIEMINSKI
ORIGINATOR - AFFILIATION U.S. EPA - REGION VI
RECIPIENT DAVID SORRELLS
RECIPIENT - AFFILIATION TEXAS WATER COMMISSION
DESCRIPTION COMMENTS ON HEALTH & SAFETY PLAN
NUMBER OF PAGES 2
DOCUMENT NUMBER SEQUENCES 113

DOCUMENT DATE SEPTEMBER 3, 1986
DOCUMENT TYPE INTEROFFICE MEMORANDUM
ORIGINATOR ERNEST W. HEYER
ORIGINATOR - AFFILIATION TEXAS WATER COMMISSION
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#RS

SOL LYNN

HOUSTON, TEXAS

RESPONSIVENESS SUMMARY

THIS COMMUNITY RELATIONS RESPONSIVENESS SUMMARY IS DIVIDED INTO TWO SECTIONS:

SECTION I: BACKGROUND ON COMMUNITY INVOLVEMENT AND CONCERN THIS SECTION PROVIDES A BRIEF HISTORY OF COMMUNITY INTEREST AND CONCERNS RAISED DURING THE REMEDIAL PLANNING ACTIVITIES AT THE SOL LYNN SUPERFUND SITE.

SECTION II: SUMMARY OF PUBLIC COMMENTS RECEIVED DURING THE PUBLIC COMMENT PERIOD AND THE EPA RESPONSES TO COMMENTS BOTH THE WRITTEN AND SPOKEN COMMENTS ARE CATEGORIZED BY TOPICS. EPA RESPONSES TO THESE RELEVANT MAJOR TOPICS ARE ALSO PRESENTED.

I. BACKGROUND ON COMMUNITY INVOLVEMENT

INITIATION OF STUDIES ON INDUSTRIAL TRANSFORMER WAS ANNOUNCED BY TWC AT A PUBLIC MEETING IN HOUSTON ON SEPTEMBER 24, 1986. EVALUATION OF THE SITE WAS DIVIDED INTO TWO SEPARATE STUDIES: 1) SURFACE SOIL CONTAMINATION; 2) GROUNDWATER CONTAMINATION. THE STUDY ADDRESSING SURFACE SOIL CONTAMINATION WAS COMPLETED IN DECEMBER 1987. ON JANUARY 21, 1988, A NEWS RELEASE THAT A PUBLIC MEETING WOULD BE HELD ON FEBRUARY 2, 1988, TO DISCUSS THE PROPOSED REMEDY FOR SURFACE CONTAMINATION AT THE SITE WAS ISSUED. THE GROUNDWATER STUDY IS EXPECTED TO BE COMPLETED IN 1989.

AN EPA PREPARED FACT SHEET WHICH DESCRIBED ALTERNATIVE REMEDIAL ACTIONS FOR THE SOIL CONTAMINATION ALONG WITH THE EPA PREFERRED ALTERNATIVE WAS SENT TO THE INTERESTED AND AFFECTED PUBLIC SHORTLY AFTER THE PUBLIC MEETING WAS ANNOUNCED. EPA AND TWC CONDUCTED THE 7:00 PM PUBLIC MEETING AT THE ASTRO VILLAGE HOTEL ON FEBRUARY 2, 1988. APPROXIMATELY 35 PEOPLE ATTENDED THE PUBLIC MEETING.

II. SUMMARY OF PUBLIC COMMENT RECEIVED DURING PUBLIC COMMENT PERIOD AND AGENCY RESPONSES

THIS SECTION GIVES THE EPA'S RESPONSES TO THE COMMENTS DURING THE PUBLIC COMMENT PERIOD. THERE WAS ONLY ONE VERBAL STATEMENT MADE AT THE PUBLIC MEETING WHICH WAS A LETTER FROM IRA E. TOBOLOWSKI AND READ BY MR. SOL LYNN. THIS LETTER WAS RECEIVED BY EPA AND IS ADDRESSED ALONG WITH ALL THE OTHER WRITTEN COMMENTS RECEIVED DURING THE PUBLIC COMMENT PERIOD IN THE FOLLOWING SUMMARY.

A. COMMENTS FROM IRA E. TOBOLOWSKI ON BEHALF OF MR. SOL LYNN, A RESPONSIBLE PARTY

COMMENT #1

THE RESULTS OF EPA DONE BY THE EPA, TWC AND MR. SOL LYNN INDICATE THERE IS NO CONTAMINATION HAZARDOUS TO HUMAN HEALTH AND THE ENVIRONMENT AT THE SITE. THIS IS SUPPORTED BY EXHIBITS B, D, E, F, J, K, L, M, AND N WHICH WERE ATTACHED TO THE LETTER.

RESPONSE

THE EPA DISAGREES. EXHIBITS B, D, AND E (SOIL AND WATER SAMPLE RESULTS DATED MAY 15, 1985 AND JANUARY 31, 1985) SHOW LOW LEVEL PCB CONTAMINATION. THESE SAMPLING POINTS ARE OUTSIDE THE CONTAMINATED ZONE. THE DATA CONCERNING TCE IN THE GROUNDWATER IS NOT APPLICABLE TO THIS PARTICULAR STUDY BUT WILL BE CONSIDERED IN THE PHASE II RESULTS.

EXHIBITS F AND G (SAMPLE RESULTS DATED MARCH 6, 1985 AND APRIL 12, 1985) ALSO SHOW PCB CONTAMINATION ABOVE THE ESTABLISHED 25 PPM CLEANUP LEVEL. THESE TESTS WERE NOT FUNDED BY THE TWC OR THE EPA AND NO DATA QUALITY DOCUMENTATION WAS PRESENTED WITH THE RESULTS. THEREFORE, THIS

DATA IS UNACCEPTABLE.

EXHIBITS K, L, AND M ARE RESULTS OF WATER SAMPLES WHICH CONTAIN TCE. THESE RESULTS PERTAIN AGAIN TO THE PHASE II STUDY IN WHICH THE GROUNDWATER WILL BE CONSIDERED.

EXHIBIT J IS A MEMO DATED APRIL 17, 1985, STATING LOW LEVELS OF PCB AND TCE EXIST AT THE SITE. THIS MEMO REFERS TO A MAP AND HISTORICAL SUMMARY OF SOIL AND WATER SAMPLING AT THE SITE WHICH WAS NOT ATTACHED TO THE MEMO, THEREFORE, NO COMMENTS CAN BE MADE ABOUT LEVEL OR THE LOCATION OF THE CONTAMINATION REFERRED TO IN THIS MEMO.

COMMENT #2

THE DATA OBTAINED BY RADIAN CORPORATION FOR THE TEXAS WATER COMMISSION IS NOT ACCURATE. THERE ARE SERIOUS QUALITY ASSURANCE, QUALITY CONTROL PROBLEMS AS SUPPORTED BY EXHIBITS S AND T.

RESPONSE

THE EPA DISAGREES. EXHIBITS S AND T ARE MEMOS FROM ERT DATED MARCH 4, 1987, AND APRIL 20, 1987, DISCUSSING THE INSTALLATION OF MONITORING WELLS AT THE SITE. THIS AGAIN RELATES TO THE PHASE II STUDY. HOWEVER, IT CAN BE STATED THAT ALL FIELD LABORATORY DATA ANALYSES WERE PERFORMED ACCORDING TO STANDARD EPA PROTOCOL. THESE PROCEDURES WERE OUTLINED IN A SITE SPECIFIC QUALITY ASSURANCE/QUALITY CONTROL PLAN. THERE WERE NO SIGNIFICANT DEVIATIONS FROM THIS PLAN, SUCH AS TO CAUSE SERIOUS PROBLEMS OR QUESTIONS WITH ANY OF THE DATA COLLECTED FOR THE REMEDIAL INVESTIGATION.

COMMENT #3

MR. SOL LYNN HAS BEEN HARASSED BY THE TEXAS WATER COMMISSION, THE TEXAS ATTORNEY GENERAL AND THE ENVIRONMENTAL PROTECTION AGENCY.

RESPONSE

EPA DISAGREES. IN DEALING WITH MR. LYNN WHO IS A POTENTIALLY RESPONSIBLE PARTY UNDER CERCLA, THE EPA SIMPLY CARRIED OUT THOSE PROCEDURES OUTLINED IN THE NATIONAL CONTINGENCY PLAN FOR THE IDENTIFICATION, NOTIFICATION AND PARTICIPATION OF RESPONSIBLE PARTIES IN THE REMEDIATION OF SUPERFUND SITES.

COMMENT #4

EXHIBIT R INDICATES THAT THE EPA HAS WASTED THE TAX PAYERS MONEY ON THIS SITE.

RESPONSE

EXHIBIT R IS A COPY OF THE PROJECT SAMPLING PLAN FOR THE REMEDIAL INVESTIGATION AND FEASIBILITY STUDY AT INDUSTRIAL TRANSFORMER SITE PREPARED BY RADIAN CORPORATION FOR THE TEXAS WATER COMMISSION DATED OCTOBER 13, 1986. THIS REPORT DOES NOT DOCUMENT EPA COST EXPENDITURES. FUNDS EXPENDED AT THE SITE ARE JUSTIFIED BECAUSE OF THE THREAT TO HUMAN HEALTH AND THE ENVIRONMENT.

COMMENT #5

EXHIBIT C AND O ARE SECRET MEMOS INDICATING THE EPA CONSIDERED DROPPING THE SITE FROM SUPERFUND.

RESPONSE

THE EPA DISAGREES. THESE ARE NOT SECRET MEMOS BUT RATHER RECORDS OF TELEPHONE CONVERSATIONS. THE EPA HAS NEVER CONSIDERED DROPPING THE SITE FROM THE NATIONAL PRIORITY LIST. EXHIBIT C DATED SEPTEMBER 25, 1985, IS A MEMO STATING THE TEXAS ATTORNEY GENERAL DID NOT WANT TO FILE AGAINST

MR. LYNN FOR THE CLEAN UP OF THE SITE. EXHIBIT O IS THE RECORD OF A PHONE CONVERSATION IN WHICH AN EMPLOYEE OF THE TEXAS DEPARTMENT OF WATER RESOURCES INQUIRED IF THE EPA PLANNED TO REMOVE THE SOL LYNN SITE FROM THE NATIONAL PRIORITIES LIST.

B. COMMENTS FROM DETOX INDUSTRIES, A BIOREMEDIATION VENDOR

COMMENT #1

A REVIEW OF THE DETAILED COST BREAKDOWN FOR THE RECOMMENDED ALTERNATIVE INDICATES AN ERROR IN ADDITION.

RESPONSE

EPA AGREES. THERE WAS AN ERROR IN THE ADDITION OF THE DIRECT ACTIVITY COSTS FOR THE DECHLORINIZATION ALTERNATIVE. THE TOTAL PRESENT WORTH SHOULD BE \$2,178,562 NOT \$1,773,660 AS INDICATED IN THE FEASIBILITY STUDY. THIS ALTERNATIVE, AS CORRECTED, IS STILL \$300,000 LESS EXPENSIVE THAN THE OTHER TECHNICALLY FEASIBLE TREATMENT ALTERNATIVES THAT PROVIDE AN EQUIVALENT LEVEL OF PROTECTION FOR HUMAN HEALTH AND THE ENVIRONMENT. THEREFORE, IT REMAINS THE MOST COST-EFFECTIVE REMEDY FOR THE INDUSTRIAL TRANSFORMER SITE.

COMMENT #2

IN-SITU BIOLOGICAL TREATMENT WAS IMPROPERLY ELIMINATED IN CHAPTER 3 OF THE FEASIBILITY STUDY.

RESPONSE

THE IN-SITU TREATMENT OF CONTAMINATED SOILS USING MICROBES WAS SCREENED OUT BECAUSE IT WOULD TAKE SIGNIFICANTLY LONGER THAN THE OTHER TECHNOLOGIES CONSIDERED. THIS INORDINATE LENGTH OF TIME FOR CLEANUP WOULD INTERFERE WITH POSSIBLE REMEDIAL ACTION TO BE TAKEN FOR THE GROUNDWATER AS WELL AS FURTHER DISRUPT BUSINESSES OPERATING AT THE SITE.

COMMENT #3

IN-SITU BIODEGRADATION IS LESS EXPENSIVE AND TAKES ONLY SIX MONTHS.

RESPONSE

DATA COLLECTED AT ANOTHER SUPERFUND SITE INDICATES THAT PCBS ADSORBED TO SOILS CANNOT BE BIODEGRADED TO 25 PPM IN SIX MONTHS AND IN FACT IT WILL TAKE MUCH LONGER. THEREFORE, IT WAS SCREENED OUT AS BEING TECHNICALLY INFEASIBLE IN COMPARISON WITH THE OTHER ALTERNATIVES CONSIDERED, COSTS NOT A FACTOR.

C. COMMENTS FROM GULF STATES UTILITIES, A POTENTIALLY RESPONSIBLE PARTY

COMMENT #1

THE QUALITY ASSURANCE PROJECT PROGRAM FOR PCB ANALYSIS DID NOT MEET WORK PLAN OBJECTIVES; CONSEQUENTLY, ALL SOIL PCB DATA IS IN QUESTION. A REVIEW OF THE DATA INDICATES THE QUALITY ASSURANCE OBJECTIVE OF LT 50% RELATIVE PERCENT DIFFERENCE WAS CONSISTENTLY EXCEEDED. THEREFORE, THE PCB SOIL DATA IS INVALIDATED AND SHOULD NOT BE INCLUDED IN THE SITE INVESTIGATION REPORT OR USED AS A BASIS FOR SELECTING A REMEDIAL ALTERNATIVE OR DETERMINING POTENTIAL PUBLIC HEALTH IMPACTS.

RESPONSE

THE EPA DISAGREES THAT THE PCB DATA IS INVALIDATED BECAUSE OF CONSISTENTLY EXCEEDING THE LT 50% RELATIVE PERCENT DIFFERENCE ON CO-LOCATED SAMPLES. IN THOSE TWO INSTANCES WHERE CO-LOCATED SAMPLES WERE TAKEN IN THE REMEDIAL INVESTIGATION, THE RELATIVE DIFFERENCE WAS 18.5 AND 85.7 PERCENT, RESPECTIVELY. WITH RESPECT TO THE FIRST SET OF CO-LOCATED SAMPLES AN ERROR WAS MADE IN

THE SITE INVESTIGATION REPORT TEXT. THE ACTUAL SAMPLES THAT WERE DUPLICATED WERE NUMBERS 22 AND 23 NOT 23 AND 24 AS INDICATED. A COMPARISON OF SAMPLES 22 AND 23 GIVE 18.5 PERCENT RELATIVE DIFFERENCE. IN THE OTHER INSTANCE WHERE THE RELATIVE DIFFERENCE WAS 85.7 PERCENT, BOTH OF THE SAMPLES HAD EXTREMELY LOW CONCENTRATIONS OF PCBS WHERE IT IS NOT UNUSUAL TO FIND SIGNIFICANT DIFFERENCES.

COMMENT #2

THE RI FAILS TO STATE WHETHER THE "UPPERMOST WATER-BEARING ZONE" IS IN AN UNCONFINED HYDRAULIC STATE (WATER TABLE CONDITION) OR A CONFINED HYDRAULIC STATE (ARTESIAN PRESSURE). KNOWING THIS IS FUNDAMENTAL TO ASSESSING THE POTENTIAL FOR SURFACE AND NEAR SURFACE CONTAMINANTS TO MOVE DOWNWARD TO THE "UPPERMOST WATER-BEARING ZONE.". THE VERY GENERALIZED LITHOLOGIC INFORMATION IN THE RI IMPLIES THAT AT LEAST 20 FEET OF CLAY OVERLIES THE "UPPERMOST WATER-BEARING ZONE"; OTHER DATA AND NARRATIVE STATEMENTS IMPLY THAT THE STATIC WATER LEVEL OF THIS ZONE RANGES FROM ABOUT 3 TO 5 FEET BELOW GROUND SURFACE. IF THIS IS TRUE, IT WOULD APPEAR THAT THE "UPPERMOST WATER-BEARING ZONE" IS IN A CONFINED TO SEMICONFINED HYDRAULIC STATE. THEREFORE, THE POTENTIAL FOR DOWNWARD MIGRATION OF SURFACE CONTAMINANTS WOULD BE ORDERS OF MAGNITUDE LOWER THAN IF THE ZONE IS IN AN UNCONFINED HYDRAULIC STATE.

RESPONSE

WE ACKNOWLEDGED THAT THE HYDROGEOLOGY OF THE SITE WAS NOT COMPLETELY DEFINED IN THE REMEDIAL INVESTIGATION, HOWEVER, IT WAS NOT THE INTENT OF THIS STUDY. OUR MAIN OBJECTIVE FOR THE FIRST STUDY WAS TO IDENTIFY THE EXTENT OF PCB SOIL CONTAMINATION ON SITE. THE GROUNDWATER AND DEEP SOIL TCE ISSUE AT THE SITE WILL BE COVERED IN PHASE II WHERE A MORE COMPLETE GEOHYDROLOGICAL STUDY WILL BE DONE.

COMMENT #3

THE SOIL PCB CONTAMINATION OBJECTIVE OF 25 PPM WAS OBTAINED FROM THE TOXIC SUBSTANCES CONTROL ACT (TSCA) PCB SPILL CLEANUP POLICY RULE (FR, 2 APR 87), NOT FROM A SITE-SPECIFIC RISK ASSESSMENT. IT IS UNCLEAR AS TO THE APPLICABILITY OF THIS TSCA POLICY AS AN APPROPRIATE, RELEVANT, AND APPLICABLE REGULATION (ARAR).

RESPONSE

THE TOXIC SUBSTANCES CONTROL ACT CLEANUP LEVEL OF 25 PPM WAS CONSIDERED RELEVANT BECAUSE IT ASSUMES AN INDUSTRIAL SETTING WITH POSSIBLE WORKER EXPOSURE FOR EIGHT HOURS PER DAY FOR A 40 YEAR PERIOD. THE INDUSTRIAL TRANSFORMER SITE IS LIKEWISE IN AN INDUSTRIAL SETTING WITH ACTIVE BUSINESSES ON SITE. THEREFORE, SITUATIONS WERE SIMILAR ENOUGH TO APPLY THE TSCA CLEANUP STANDARD.

COMMENT #4

A DECONTAMINATION OBJECTIVE OF 100 PPM IN THE SOIL WAS SELECTED AS THE APPROPRIATE CONCENTRATION AT THE GENEVA INDUSTRIES SUPERFUND SITE IN HOUSTON AS PER THE RECORD OF DECISION (ROD) OF 9/18/86. THERE WAS NO DISCUSSION OR CONSIDERATION OF THIS DECISION AS A PART OF THIS RI/FS. A DECONTAMINATION OBJECTIVE OF 100 PPM AT THE INDUSTRIAL TRANSFORMER SITE WOULD HAVE MAJOR IMPLICATIONS AS TO THE REMEDY SELECTION AND COST.

RESPONSE

THE DIFFERENCE IN CLEANUP LEVELS IS THE RESULT OF THE CONDITIONS WHICH EXIST AT THE TWO SITES. THE GENEVA INDUSTRIES SITE IS AN ABANDONED FACILITY. IN ADDITION TO THE HIGHER CLEANUP CRITERION OF 100 PPM, A RCRA COMPLIANT CAP WAS PLACED OVER THE ENTIRE SURFACE OF THE SITE. THIS CAP, WHICH MUST BE MAINTAINED BY THE STATE, WILL LIMIT INCIDENTAL EXPOSURE TO THE PCB CONTAMINATED SOIL. A CAP OF THIS TYPE WAS NOT FEASIBLE AT THE INDUSTRIAL TRANSFORMERS SITE BECAUSE OF THE BUSINESSES CURRENTLY OPERATING AT THE SITE. AS WAS DISCUSSED IN EPA'S RESPONSE

TO COMMENT #3, A 25 PPM CLEANUP LEVEL IS NEEDED TO PROTECT THE HEALTH OF THE WORKERS AT THE SITE WITHOUT CLOSING THE BUSINESSES.

COMMENT #5

A REMEDY CONSISTING OF PARTIAL SOIL REMOVAL (LT 1 FOOT) AND HOT SPOT REMOVAL AND TREATMENT TO SOIL CONCENTRATIONS OF LESS THAN 25 PPM WAS NOT CONSIDERED. THIS WOULD DRASTICALLY REDUCE THE VOLUME OF SOIL TO BE REMEDIATED, AND CONSEQUENTLY BE A MORE COST-EFFECTIVE SOLUTION.

RESPONSE

THE COMPLEXITY AND EXPENSE ASSOCIATED WITH EXCAVATING A HOT SPOT, TESTING, EXCAVATING, THEN RETESTING MAKES HOT SPOT REMOVAL TECHNICALLY IMPRACTICAL.

TEXAS WATER COMMISSION

MARCH 18, 1988

DR. ALLYN M. DAVIS
DIRECTOR, HAZARDOUS WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION VI (6H)
1445 ROSS AVENUE
DALLAS, TX 75202

RE: INDUSTRIAL TRANSFORMERS SUPERFUND SITE
DRAFT RECORD OF DECISION

DEAR DR. DAVIS:

WE HAVE REVIEWED THE PROPOSED RECORD OF DECISION (ROD) FOR THE CONTAMINATED SOILS (OPERABLE UNIT I) AT THE INDUSTRIAL TRANSFORMERS SUPERFUND SITE. WE HAVE NO OBJECTION TO THE SELECTED REMEDY AS DESCRIBED IN THE DRAFT ROD. THE SELECTED REMEDY FOR THE SITE INCLUDES TREATMENT OF SOILS CONTAMINATED WITH POLYCHLORINATED BIPHENYLS (PCBS) ABOVE THE CLEANUP CRITERION USING CHEMICAL DECHLORINIZATION.

SINCERELY,

ALLEN P. BEINKE
EXECUTIVE DIRECTOR

GT/MEM.